

Wisconsin Births and Infant Deaths 1998

January 2000

Bureau of Health Information
Division of Health Care Financing
Department of Health and Family Services

Introduction

This report presents information about births that occurred in 1998 to Wisconsin residents. Information from previous years is also presented to show changes over time. Included is information on the number and rate of live births; demographic characteristics of the mother, such as age, race, marital status, education and number of previous births; characteristics of pregnancy and delivery, including the trimester that prenatal care began, number of visits, and whether the mother smoked during pregnancy; and birthweight of the newborn. Also included is information about infants who died before their first birthday, and fetuses of more than 20 weeks gestation who were stillborn.

All data in this report refer to Wisconsin residents unless otherwise noted. In most tables, events have been assigned to the area where the person lives (usually legal residence), regardless of the place of the event. For births, the reference is to the residence of the mother. For deaths, the reference is to the residence of the infant.

The indicators included in this report have been selected based on their availability from birth and infant death records and their use in identifying health risks, as determined by national and international studies. The data files used are: Wisconsin resident birth certificate file, matched birth-death file, and fetal death file. The tables and graphics presented were designed to make these indicators easily accessible, while allowing users flexibility. Most tables include the frequencies of events or conditions, along with percentages or rates. In general, bar graphs show cross-sectional data for 1998 (and comparative information for 1988 or 1992); line graphs show time trends, and vary in the years shown for comparison.

Chapter 69 of the Wisconsin Statutes mandates the Department of Health and Family Services to supervise and direct the collection of birth data from hospitals and birth attendants. State law also requires the Department to protect the confidentiality of birth data, and to ensure that statistical information based on the data (such as that contained in this report) does not identify any individual. The Bureau of Health Information scrupulously follows written procedures to protect the confidential data entrusted to it.

The National Center for Health Statistics works with representatives of all 50 states to select the specific data items collected on the birth record. Data items are chosen for their usefulness in understanding and improving maternal and child health outcomes. A sample of the Wisconsin birth record is included in the Technical Notes (pages 97 and 98). Samples are also provided of the Wisconsin death certificate, and the Wisconsin report of fetal death (see pages 99 and 100).

Birth, death, hospitalization and other health-related statistical information for Wisconsin is also available on the Internet through the Department of Health and Family Services home page, at www.dhfs.state.wi.us/.

The Bureau of Health Information acknowledges and thanks the Wisconsin hospitals and birth attendants who contributed birth information, and their counterparts in neighboring states who submitted out-of-state birth data for Wisconsin residents.

The Department of Health and Family Services produced this publication. Staff of the Bureau of Health Information, Vital Records Section, Registration and Statistics Unit, collected and compiled the birth, infant death and fetal death records. Jan Silbaugh prepared the report, Patricia Nametz updated

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Key Findings

- In 1998, there were 67,379 live births to Wisconsin residents, 889 more than in 1997. This represents the first annual increase in the number of births since 1990.
- The 1998 crude birth rate was 12.8 births per 1,000 total population, similar to the 1997 rate (12.7). The preliminary United States crude birth rate for 1998 was 14.6 per 1,000 total population.
- The 1998 general fertility rate of 58.1 births per 1,000 Wisconsin females aged 15-44 was lower than the United States 1998 preliminary general fertility rate of 65.6 (see Technical Notes, page 101, for source of U.S. data).
- In 1998, the fertility rate for Wisconsin teens aged 15-19 was 35.1 births per 1,000 females in this age group (compared with 51.1 nationally for 1998). The Wisconsin teen fertility rate has decreased each year since 1991, and has generally been around two-thirds the national rate.
- Wisconsin age-specific fertility rates were also lower than the national rates for women aged 20-24 and ages 35 and older, while fertility rates among Wisconsin women aged 25-34 were slightly higher than national rates (see page 8).
- From 1988 to 1998, the percent of total births that occurred among women aged 20-29 decreased, while the percent of births to women aged 30 and older increased. The proportion of births to teens (under 20) remained about the same.
- From 1988 to 1998, the proportion of births to non-Hispanic white women decreased from 86 percent to 81 percent, while the proportion of births to Hispanics increased from 2 percent to 5 percent. The proportion of births to women in other race/ethnicity groups remained roughly stable, with black women accounting for 9-10 percent, American Indian women 1 percent, and women in other groups 2 or 3 percent of births each year.
- Twenty-nine percent of Wisconsin births in 1998 were to unmarried mothers, compared to 22 percent in 1988. The percentage of unmarried mothers in Wisconsin in 1998 was lower than the 1998 national rate of 33 percent.
- In both 1988 and 1998, 16 percent of Wisconsin women who gave birth had less than a high school education. Fifty-one percent of women who gave birth in 1998 had one year of college or more, compared to 40 percent in 1988.
- While the overall proportion of women who received first-trimester prenatal care remained roughly stable from 1988 to 1998, the proportion increased among teenagers, among females aged 40 and over, and within each race/ethnicity group.
- The proportion of women giving birth who reported that they smoked during pregnancy decreased from 22 percent in 1992 to 18 percent in 1998.
- In Wisconsin, 4,412 infants weighed less than 2,500 grams (about 5.5 pounds) at birth, representing 6.5 percent of all births in 1998. The comparable percentage in 1988 was 5.5 percent. Preliminary national data indicate that 7.6 percent of all infants born in 1998 weighed less than 2,500 grams at birth.

-
- In Wisconsin, 488 infants under age one died in 1998. The 1998 infant mortality rate was 7.2 infant deaths per 1,000 live births, higher than the 1997 rate (6.5). The 1998 U.S. preliminary infant mortality rate was also 7.2 infant deaths per 1,000 live births.

**Ten Most Popular First Names for Newborns,
Wisconsin, 1998**

Females

1. Emily
2. Hannah
3. Samantha
4. Alexis
5. Elizabeth
6. Megan
7. Ashley
8. Taylor
9. Sarah
10. Alyssa

Males

1. Jacob
2. Michael
3. Austin
4. Tyler
5. Nicholas
6. Matthew
7. Zachary
8. Brandon
9. Joshua
10. Joseph

Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Notes: This ranking counts each spelling as a separate name. The list would change somewhat if different spellings were grouped together and counted as one name. For example, counting Kaitlyn, Katelyn, Caitlin and Kaitlin as one name would place it into the top ten list for 1998.

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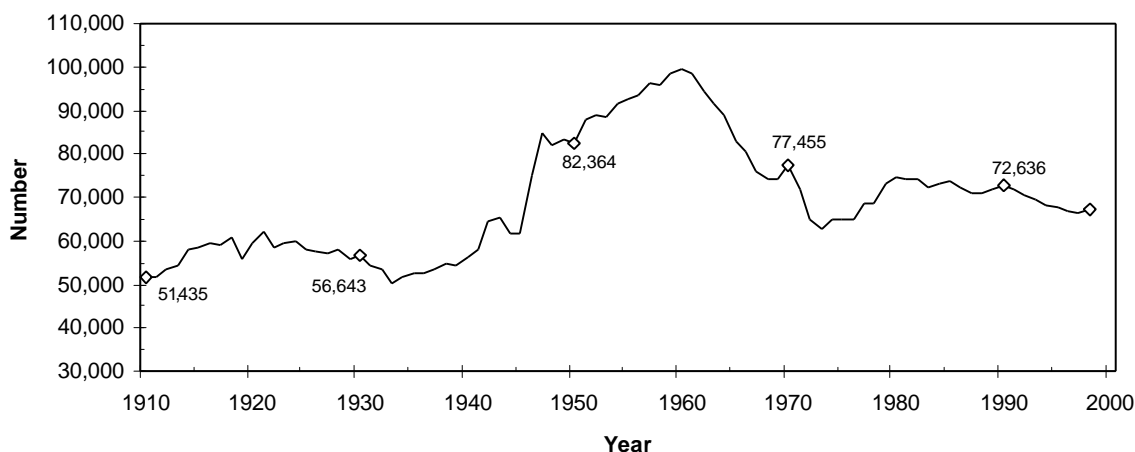
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Birth and Fertility Rates

- In 1998, there were 67,379 births to Wisconsin residents, 889 more than in 1997.
- 1998 marked the first increase in the number of births since 1990, when there was an increase of 746. From 1991 to 1997 the number of births to Wisconsin residents declined annually.
- The 1998 crude birth rate was 12.8 births per 1,000 population, similar to the 1997 rate (12.7). In comparison, the preliminary United States crude birth rate for 1998 was 14.6 births per 1,000 population. (The crude birth rate is the number of live births per 1,000 estimated total population).
- The 1998 general fertility rate of 58.1 births per 1,000 Wisconsin females ages 15-44 was lower than the 1998 preliminary United States general fertility rate of 65.6 births per 1,000 females in this age group.

Figure 1. Number of Births to Wisconsin Residents, 1910-1998



Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Note: A live birth is the complete expulsion or extraction of an infant from its mother, regardless of the duration of pregnancy, after which the infant breathes or shows other evidence of life, such as beating of the heart, pulsation of the umbilical cord or definite movement of voluntary muscles. Unless otherwise noted, all births referred to in this report are live births to Wisconsin residents.

- Age-specific fertility rates are the number of births to a specific age group per 1,000 females in that age group. Wisconsin age-specific fertility rates are lower than the corresponding national rates for teens, women aged 20-24 and women aged 35 and older.
- Fertility rates among Wisconsin women aged 25-34 are slightly higher than national rates, based on United States 1998 preliminary statistics. (See Technical Notes, page 101, for source of U. S. data.)

Age-Specific Fertility Rates, Wisconsin and United States, 1998

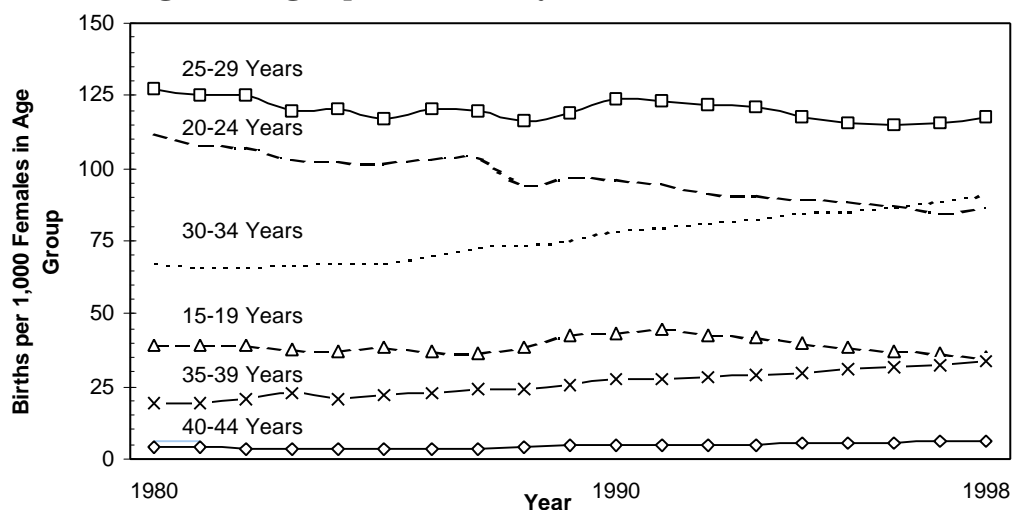
Age	Wisconsin Rate	U. S. Rate
15-19	35.1	51.1
15-17	20.4	30.4
18-19	57.7	82.0
20-24	86.8	111.2
25-29	117.7	116.0
30-34	90.5	87.5
35-39	33.8	37.4
40-44	5.9	7.3

Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Note: Wisconsin rates for births to mothers ages 15-19 and 15-17 include 111 births to mothers less than 15 years old; the rate for mothers aged 40-44 includes 61 births to mothers aged 45 or older. U.S. rates for ages 15-19 and 15-17 do not include births to mothers less than 15 years old; the U.S. rate for ages 40-44 does not include births to mothers aged 45 or older.

- Compared with 1980, age-specific fertility rates in 1998 were:
 - Lower for teens, women aged 20-24, and women aged 25-29.
 - Higher for women aged 30-34 and 35 plus.

Figure 2. Age-Specific Fertility Rates, Wisconsin, 1980-1998

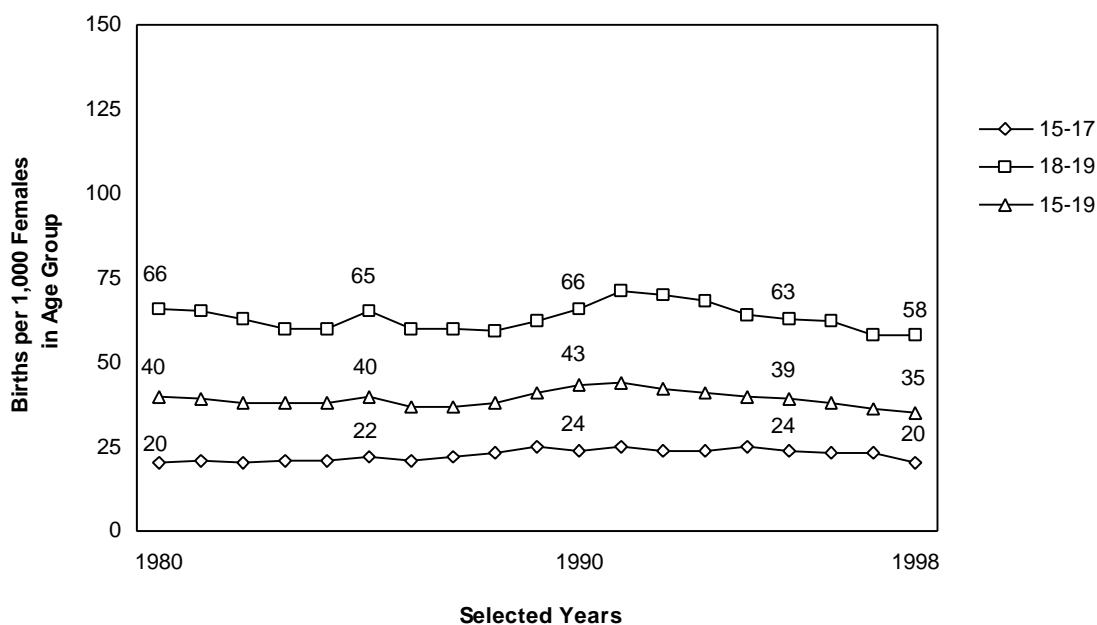


Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Note: The fertility rate for Wisconsin females ages 15-19 is based on that age-specific population but includes births to mothers less than 15 years old. The fertility rate for females aged 40-44 is based on that age-specific population but includes births to mothers aged 45 and older.

- In 1998, the fertility rate for Wisconsin teens aged 15-19 was 35.1 births per 1,000 females in this age group (compared with 36.3 in 1997). The teen fertility rate in 1998 was the lowest in Wisconsin since 1980. The Wisconsin teen fertility rate has decreased annually since 1991.
- The Wisconsin teen fertility rate has generally been around two-thirds the comparable national rate. In 1998, the U.S. teen fertility rate was 51.1.

Figure 3. Teen Birth Rates, Selected Years, Wisconsin, 1980-1998



Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Note: Fertility rates for ages 15-17 and 15-19 are based on these age-specific populations, but include births to mothers younger than 15 years old.

Characteristics of the Mother

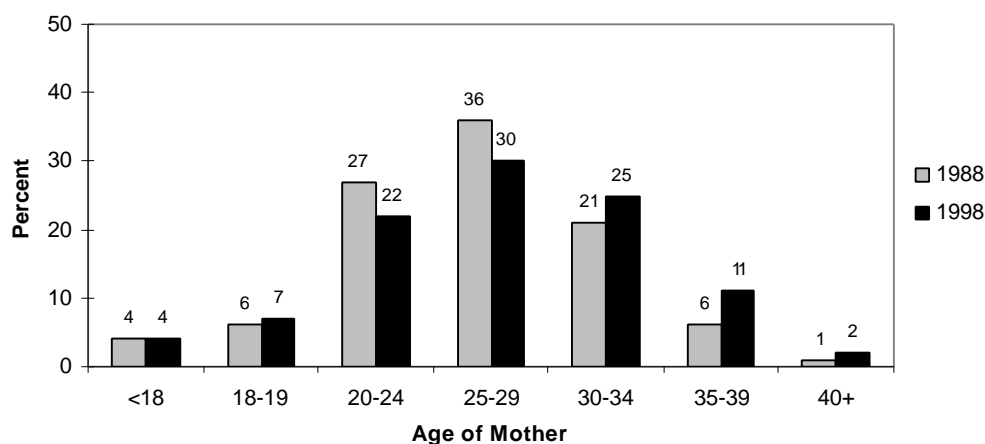
Age

Births in 1998 included:

111	births to teens less than 15 years old
2,366	births to teens 15-17 years old
4,570	births to teens 18-19 years old
14,632	births to women aged 20-24
19,932	births to women aged 25-29
17,126	births to women aged 30-34
7,385	births to women aged 35-39
1,191	births to women aged 40-44
61	births to women aged 45 or older
5	births with unreported maternal age.

- From 1988 to 1998, the percent of births to women in their twenties decreased, while the percent of births to women in their thirties increased (see Figure 4). The proportion of births to teens remained roughly stable.

Figure 4. Percent of Births by Age of Mother, Wisconsin, 1988 and 1998



Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Note: For detailed information on 1998 births by age of mother, see Supplementary Tables A1 and A2, pages 83 and 84.

Births to Teens

- The majority of births to teens (under 20 years of age) were to older teens, aged 18-19. This was also true in 1988.

Teen Births by Age, Wisconsin, 1988 and 1998

Maternal Age (Teens)	1988		1998	
	Number	Percent	Number	Percent
<15	133	2%	111	2%
15-17	2,322	33	2,366	34
18-19	4,486	65	4,570	65
Total <20	6,941	100%	7,047	100%

Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Note: Percents may not add to 100 due to rounding.

- Non-Hispanic whites make up the largest number of teen births in the state (4,036 in 1998).
- Teen births represented 10.5 percent of all births, but a higher proportion of births to blacks, American Indians, Hispanics, and Laotian/Hmong.

Teen Births by Race/Ethnicity, Wisconsin, 1998

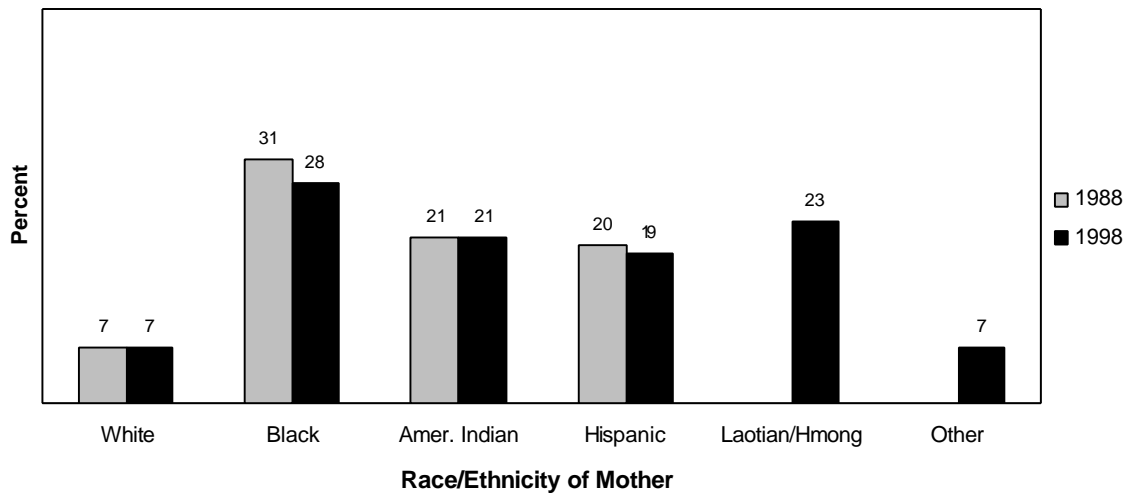
Race/Ethnicity	Number of Births		Percent of Births		
	Total	Teens (<20)	Teens (<20)	Ages 20+	Total
Total	67,379	7,047	10.5%	89.5%	100.0%
White	54,598	4,036	7.4	92.6	100.0
Black	6,480	1,832	28.3	71.7	100.0
American Indian	829	177	21.4	78.5	100.0
Hispanic	3,633	708	19.5	80.5	100.0
Laotian/Hmong	1,037	235	22.7	77.3	100.0
Other	795	57	7.2	92.8	100.0

Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Note: Included in the total are 7 births for which race/ethnicity of mother was not reported.

- Within each race/ethnicity category, the percent of births to teens has been fairly stable for the past decade.

Figure 5. Births to Teens as a Percent of Total Births, by Race/Ethnicity, Wisconsin, 1988 and 1998



Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Notes: See Technical Notes for full definitions of race/ethnicity categories. There are no comparable 1988 data available for the Laotian/Hmong or Other groups.

Race/Ethnicity

- In 1998, 54,598 births (81.0%) were to non-Hispanic white women. This percentage continues a gradual decline that began over 27 years ago (it was 93% in 1971).
- 6,480 births (9.6%) were to non-Hispanic black women. The percent of births to black women has been fairly stable since 1988.
- 829 births (1.2%) were to American Indian women. This proportion has been stable for the past decade.
- 3,633 births (5.4%) were to Hispanic women. Since 1988, this group has represented an increasing proportion of births, partly reflecting a 1989 change in how Hispanic ethnicity is reported on the birth certificate. (The 1989 revision added a Hispanic origin question, separate from the race categories).
- 1,037 births (1.5%) were to Laotian/Hmong women.
- An additional 795 births (1.2%) were to women in other racial groups.

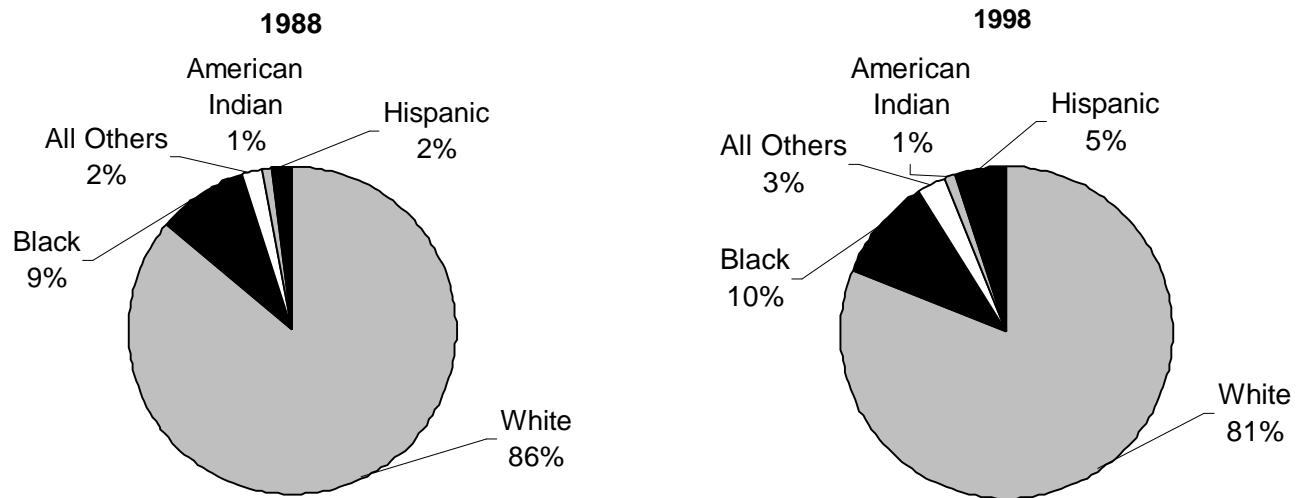
Number and Percent of Births by Race/Ethnicity, Wisconsin, 1988 and 1998

	1988		1998	
	Number	Percent	Number	Percent
Total	70,711	100.0%	67,379	100.0%
White	60,938	86.2	54,598	81.0
Black	6,337	9.0	6,480	9.6
American Indian	787	1.1	829	1.2
Hispanic	1,281	1.8	3,633	5.4
Laotian/Hmong			1,037	1.5
Other			795	1.2
Unknown			7	

Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Notes: The 1988 total includes seven births for which the mother's race is unknown. There are no comparable data for 1988 for the Laotian/Hmong and "other" groups.

Figure 6. Percent of Births by Race of Mother, Wisconsin, 1988 and 1998

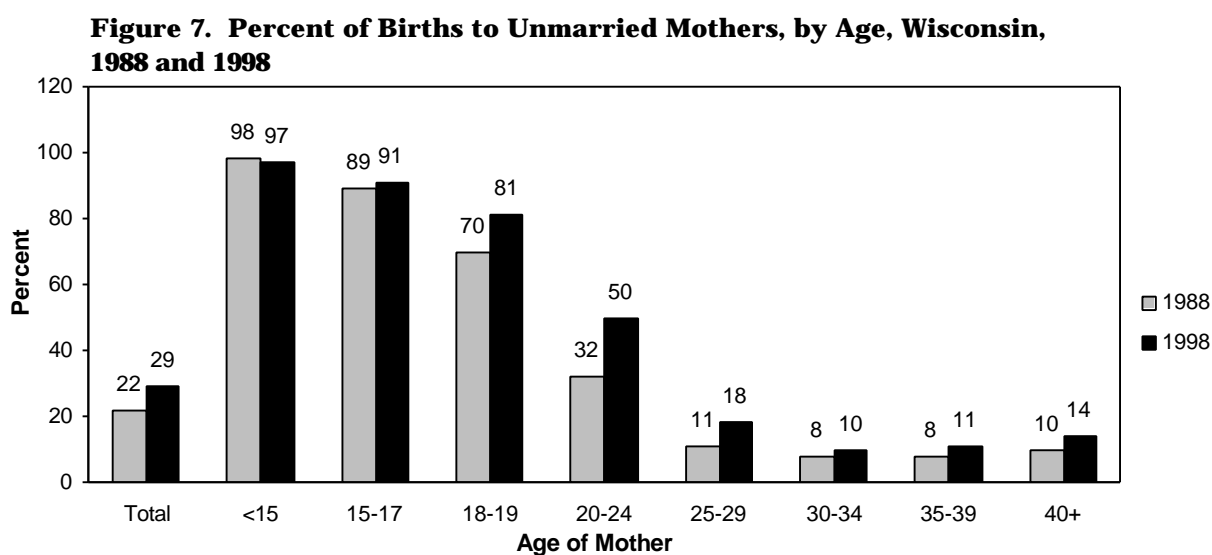


Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Notes: See Technical Notes for full definitions of race/ethnicity categories. For detailed information on 1998 births by race of mother, see Supplementary Tables B1 and B2, pages 85, 86, and 87. Percents may not add to 100 due to rounding.

Marital Status

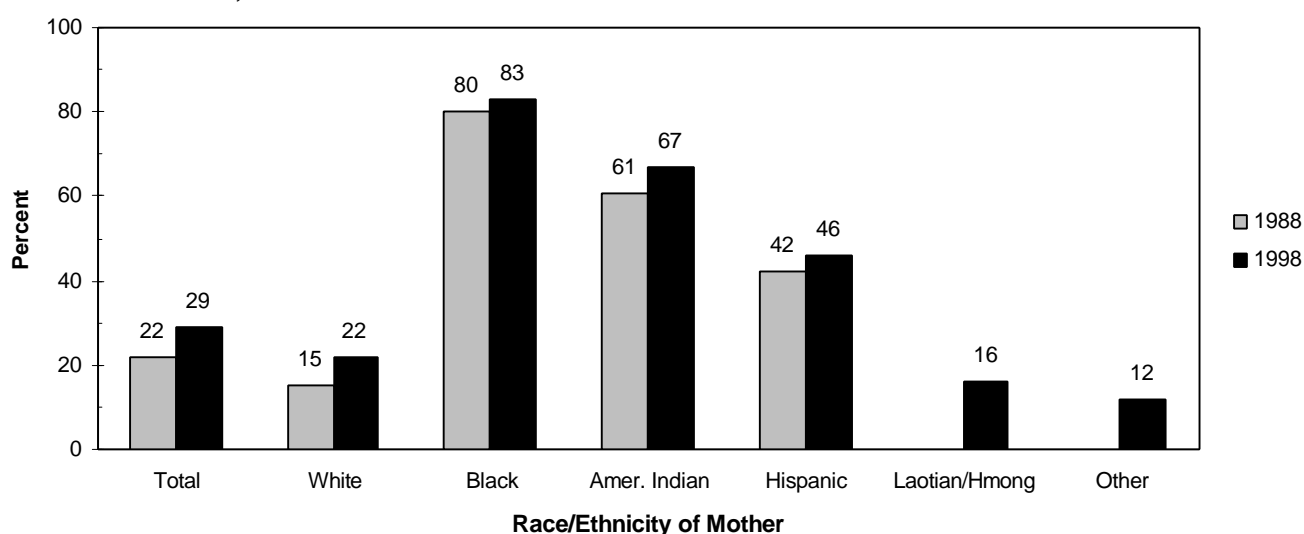
- In 1998, 29 percent of births were to unmarried women, compared with 22 percent in 1988.
- In general, the percent of mothers who are unmarried decreases with age. Eighty-one percent of those 18 to 19 years old giving birth in 1998 were unmarried, compared with only 10 percent of those aged 30-34.
- Between 1988 and 1998, the unmarried percentage increased in nearly every maternal age group. The largest increase occurred among mothers aged 20-24 (from 32 to 50 percent—18 percentage points).



Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

- From 1988 to 1998, the percent of non-marital births increased in each race/ethnicity group.
- The Wisconsin percentage of births to unmarried mothers in 1998 was lower than the national percent (29% versus 33%). However, the percentage of births to unmarried mothers was higher in Wisconsin than nationally among blacks (83% vs. 69%) and Hispanics (46% vs. 42%).

Figure 8. Percent of Births to Unmarried Mothers, by Race/Ethnicity, Wisconsin, 1988 and 1998



Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Notes: See Technical Notes for full definitions of race/ethnicity categories. There are no comparable 1988 data for the Laotian/Hmong or Other groups.

Education

- In both 1988 and 1998, 16 percent of women who gave birth had not finished high school. This proportion varied by age so that the percentages with less than a high school education in 1998 were:

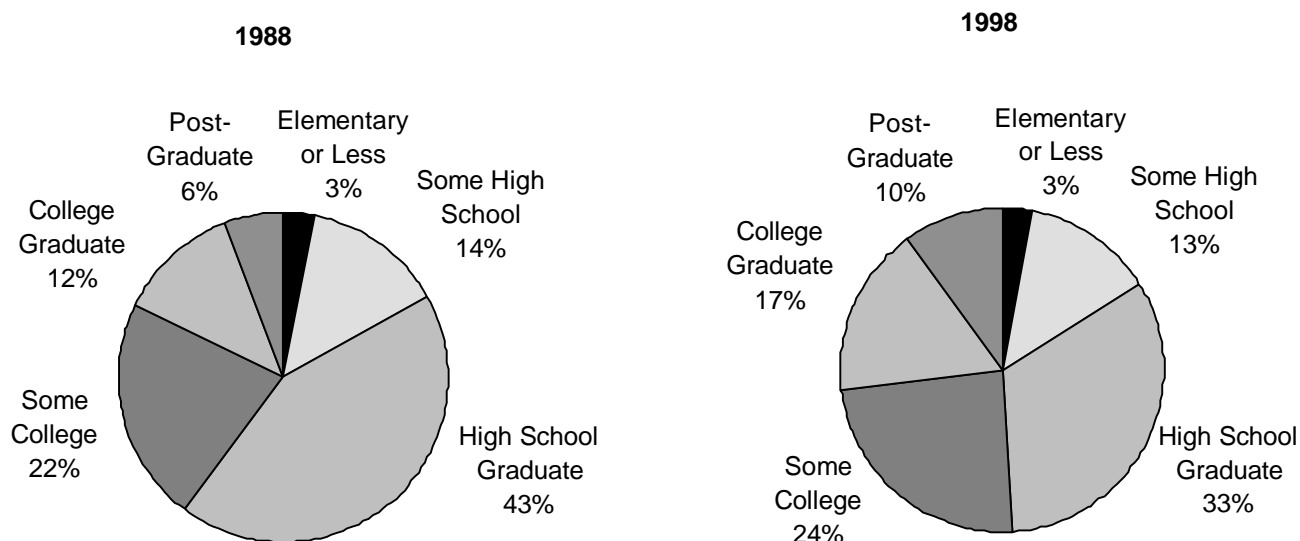
93%	among mothers <18
43%	among mothers 18-19
22%	among mothers 20-24
8%	among mothers 25-29
5%	among mothers 30-34
6%	among mothers 35-39
12%	among mothers 40 or older

- On average, mothers in minority race/ethnicity groups were less likely to have completed high school. In 1998, the proportions of births to women with less than a high school education were:

9%	among whites
41%	among blacks
33%	among American Indians
50%	among Hispanics
53%	among Laotian/Hmong
12%	among other race/ethnicity groups

- Fifty-one percent of women who gave birth in 1998 had attended college for one year or more. The comparable percentage in 1988 was 40 percent.

Figure 9. Percent of Births by Education of Mother, Wisconsin, 1988 and 1998



Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

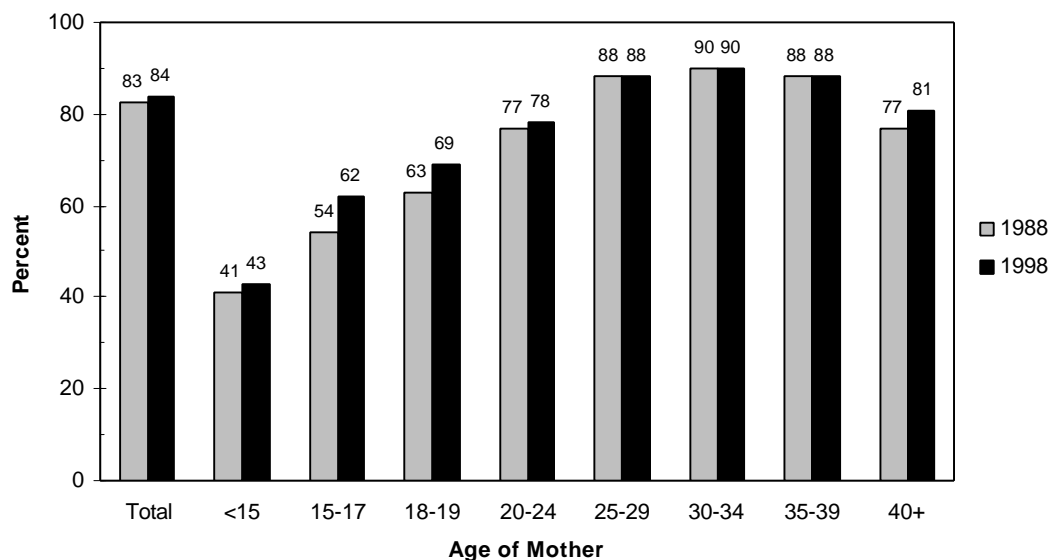
Notes: “Some High School” or “Some College” means the mother completed at least one year of schooling at that level. For detailed information on 1998 births by education of mother, see Supplementary Tables A-C, pages 83 to 89. Percents may not add to 100 due to rounding.

Characteristics of the Pregnancy and Delivery

Prenatal Care

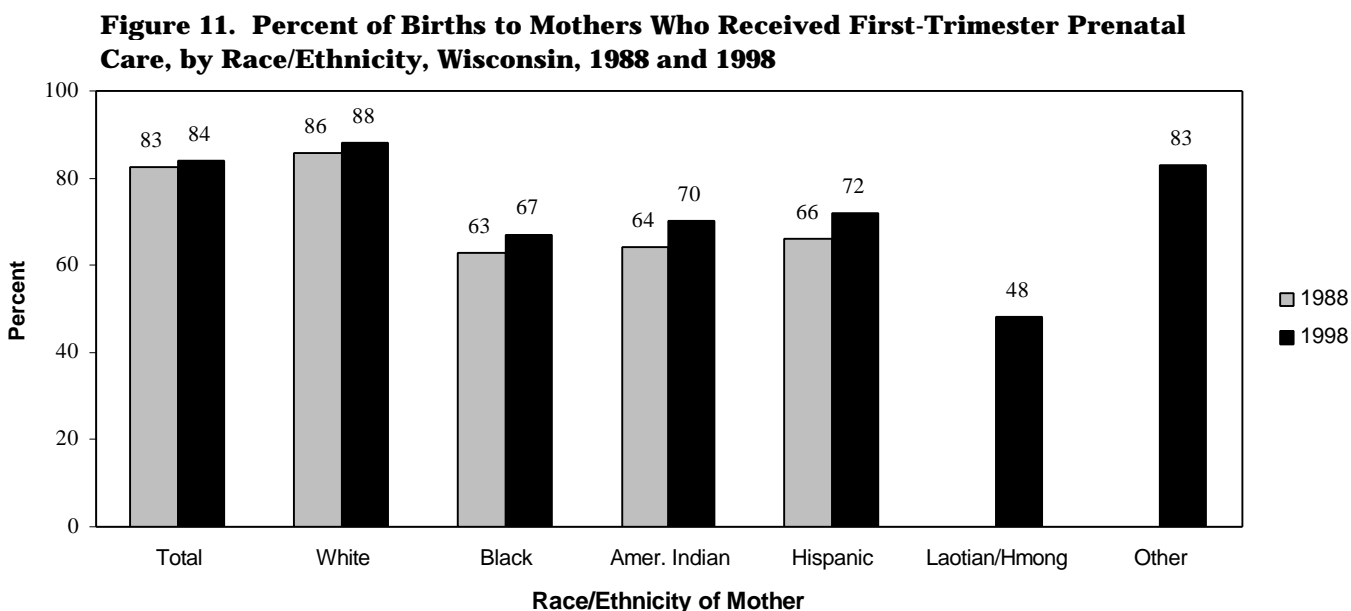
- The overall proportion of women who received first-trimester prenatal care was nearly the same in 1998 (84%) as in 1988 (83%).
- Teenage mothers and mothers age 40 and older were more likely to receive first-trimester care in 1998 than in 1988.
- Eighty-four percent of Wisconsin women received first-trimester prenatal care in 1998, a higher proportion than the 1998 preliminary national figure (82.8%).

Figure 10. Percent of Births to Mothers Who Received First-Trimester Prenatal Care, by Age, Wisconsin, 1988 and 1998



Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

- From 1988 to 1998, the proportion receiving first-trimester care increased within each race/ethnicity group.



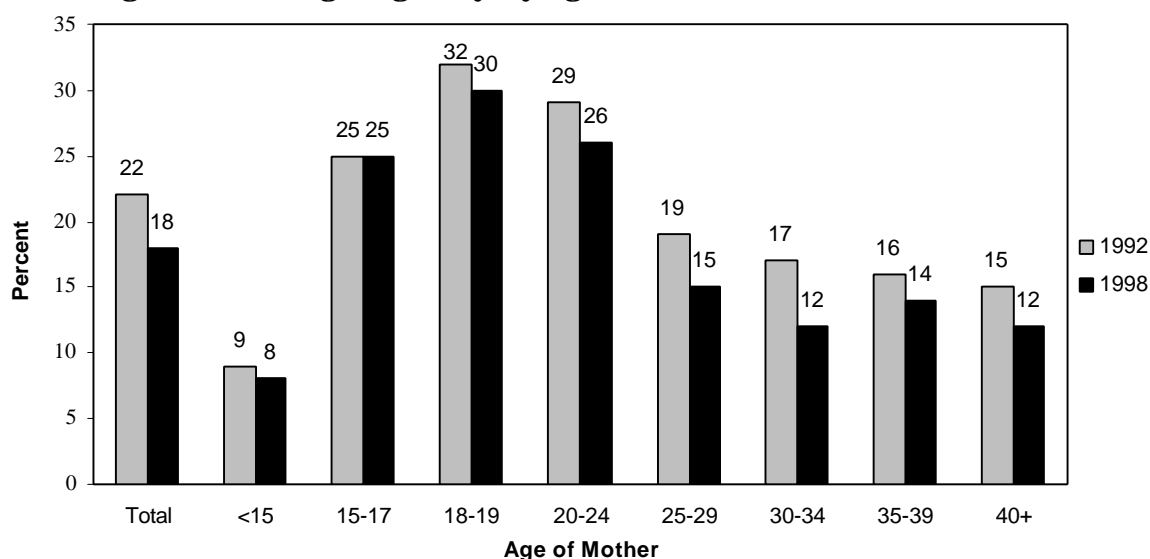
Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Notes: See Technical Notes for full definitions of race/ethnicity categories. There are no comparable 1988 data available for the Laotian/Hmong or Other groups.

Cigarette Smoking

- Smoking during pregnancy poses risks for fetal development and infant health. Maternal smoking is associated with low birthweight in two ways: it slows fetal growth during gestation and increases the risk of a premature birth.
- The proportion of women who reported that they smoked during pregnancy decreased from 22 percent in 1992 to 18 percent in 1998. The 1998 percent was unchanged from 1997 (18%).
- From 1992 to 1998, smoking during pregnancy declined in most maternal age groups. Smoking remained stable among mothers aged 15-17 (25% in both years).

Figure 12. Percent of Births to Mothers Who Reported Smoking Cigarettes During Pregnancy, by Age, Wisconsin, 1992 and 1998

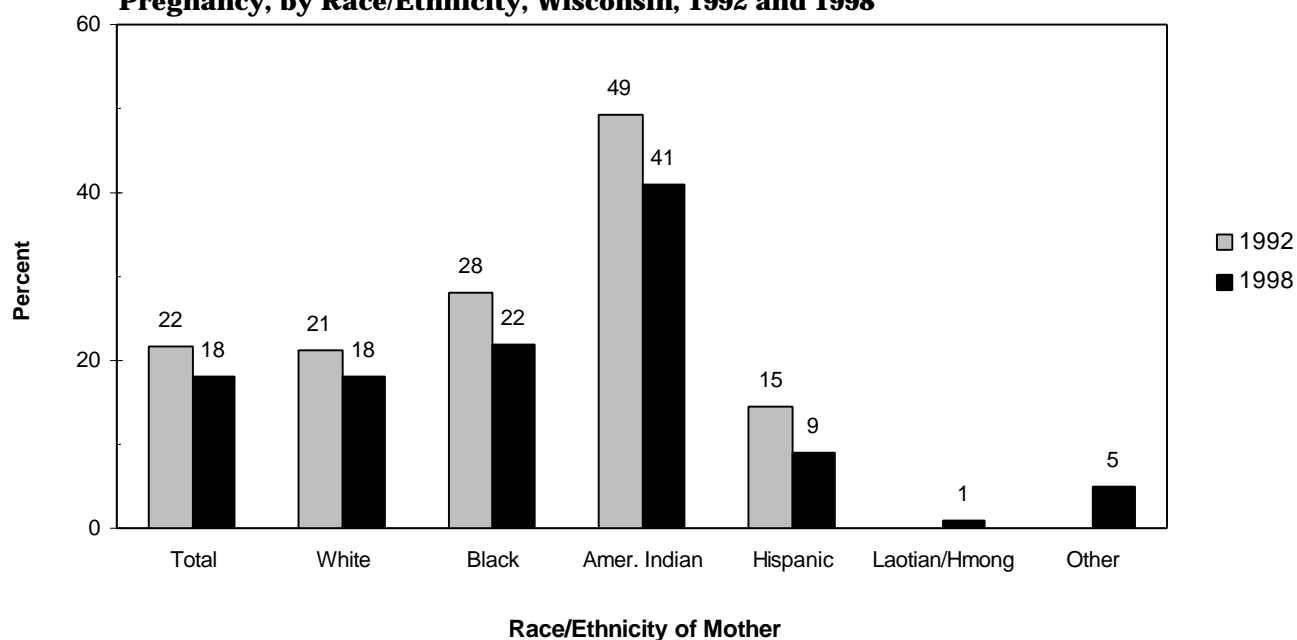


Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Notes: A question about self-reported smoking during pregnancy was introduced on the 1989 birth certificate. Results of this question have been analyzed since 1992. For detailed information on 1998 births by smoking behavior during pregnancy, see Supplementary Tables A, B and C, pages 83 to 90.

- From 1992 to 1998, the percentage of mothers who reported smoking during pregnancy declined in each race/ethnicity group.
- No data are presented on mother's self-reported use of alcohol during pregnancy, because this item is probably under-reported on the birth reporting form. This conclusion is based on the inconsistency between birth certificate data (2% of mothers reported drinking during pregnancy in 1998) and the 1998 Behavioral Risk Factor Survey (69% of Wisconsin women aged 18-44 reported drinking within the past month).

Figure 13. Percent of Births to Mothers Who Reported Smoking Cigarettes During Pregnancy, by Race/Ethnicity, Wisconsin, 1992 and 1998



Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Notes: See Technical Notes for full definitions of race/ethnicity categories. There are no comparable 1992 data available for the Laotian/Hmong or Other groups. For detailed information on 1998 births by smoking behavior during pregnancy, see Supplementary Tables A, B and C, pages 83 to 90.

Medical Risk Factors

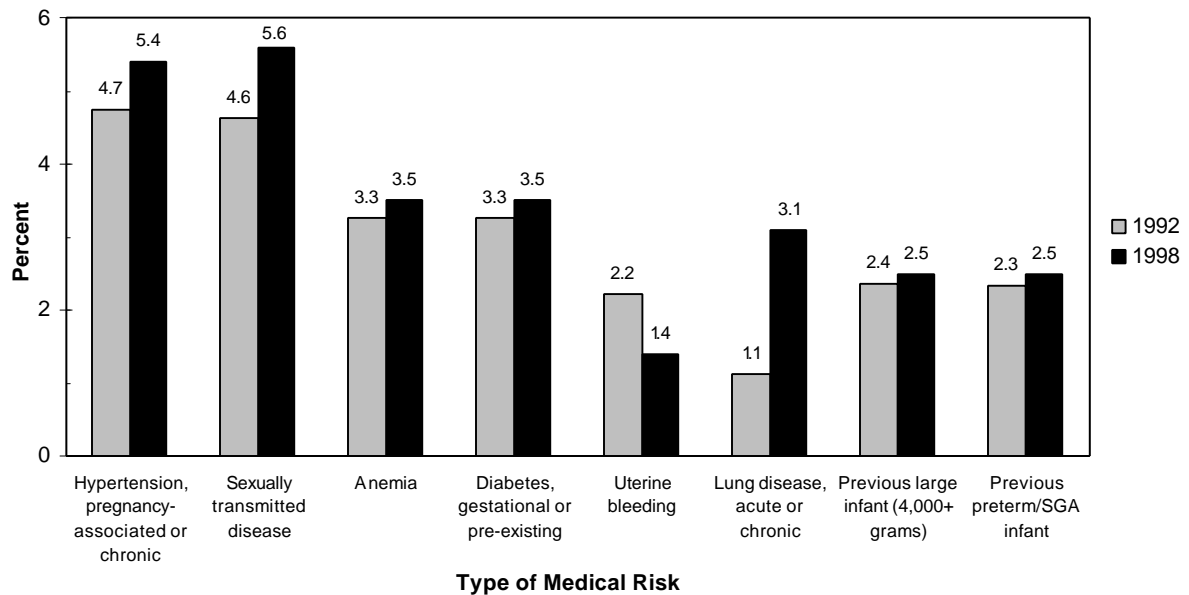
- The most frequently reported maternal medical risk factors reported for 1998 births were sexually transmitted diseases (reported in 5.6 percent of births), hypertension (5.4 percent), diabetes (3.5 percent), and anemia (3.5 percent).

Births with Reported Medical Risk Factors, Wisconsin, 1998

Sexually Transmitted Diseases	3,792	5.6%
Hypertension	3,642	5.4
Pregnancy-Associated	3,109	4.6
Chronic	533	0.8
Diabetes	2,358	3.5
Gestational	2,051	3.0
Pre-Existing	307	0.5
Anemia	2,326	3.5
Lung Disease, Acute or Chronic	2,105	3.1
Previous Preterm/Small for Gestational Age Infant	1,701	2.5
Previous Large Infant (4,000+ grams)	1,697	2.5
Uterine Bleeding	938	1.4
Cardiac Disease	714	1.1
Hydramnios/Oligohydramnios	706	1.0
Renal Disease	390	0.6
Rh Sensitization	336	0.5
Eclampsia	251	0.4
Incompetent Cervix	234	0.3
Any Reported	24,929	37.0
Source:	Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.	

Notes: See Technical Notes for definitions of maternal medical risk factors. Since more than one medical risk factor may be indicated for each birth, and since conditions in the "other" checkbox are not reported in this table, columns will not sum to the "any reported" line. The maternal medical risk factor checklist was introduced on the 1989 birth certificate. By 1992, this information was considered sufficiently well recorded and edited to be included in the annual reports.

Figure 14. Percent of Births with Selected Maternal Medical Risk Factors, Wisconsin, 1992 and 1998



Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Methods of Delivery

In 1998, the following methods of delivery were reported:

Other Vaginal	53,214	79.0%
Primary C-Section	7,047	10.5
Repeat C-Section	3,767	5.6
Vaginal After Previous C-Section (VBAC)	1,921	2.9
Forceps	1,430	2.1
Total	67,379	100.0%

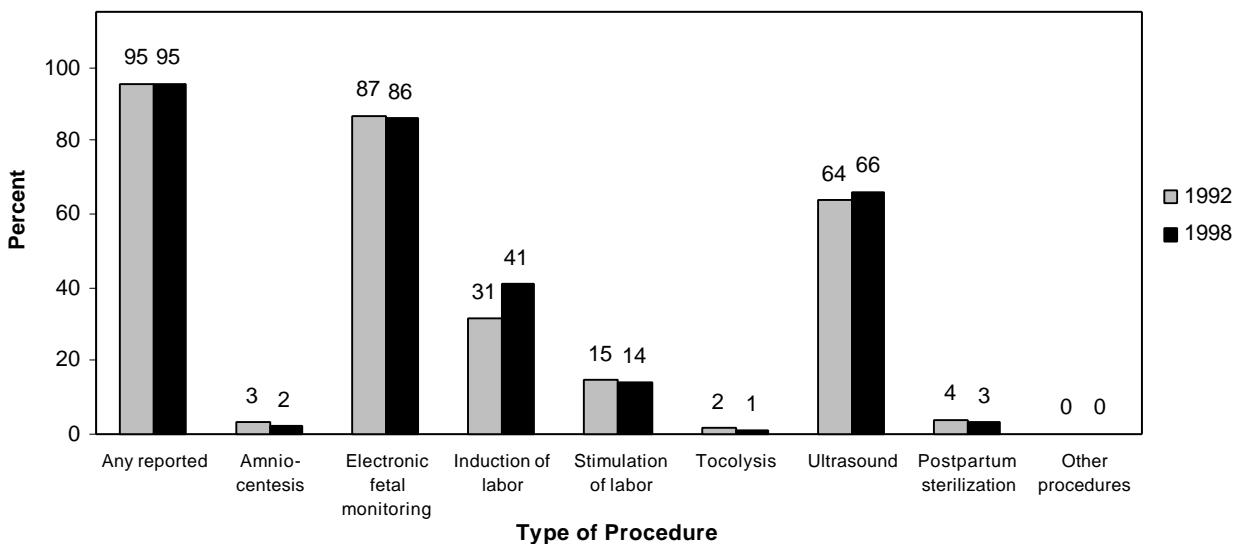
Obstetric Procedures

In 1998, births with reported obstetric procedures included:

Electronic fetal monitoring	58,173	86.3%
Ultrasound	44,375	65.9
Induction of labor	27,429	40.7
Stimulation of labor	9,461	14.0
Amniocentesis	1,611	2.4
Postpartum sterilization	1,802	2.7
Tocolysis	847	1.3
Other Procedures	246	0.4
Births With Reported Procedure(s)	63,730	94.6

Notes: See Technical Notes for definitions of obstetric procedures. The obstetric procedures checklist was introduced on the 1989 birth certificate. By 1992, this information was considered sufficiently well recorded and edited to be included in the annual reports. Each birth could have more than one type of procedure reported.

Figure 15. Percent of Births with Obstetric Procedures Reported, Wisconsin, 1992 and 1998



Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Characteristics of the Newborn

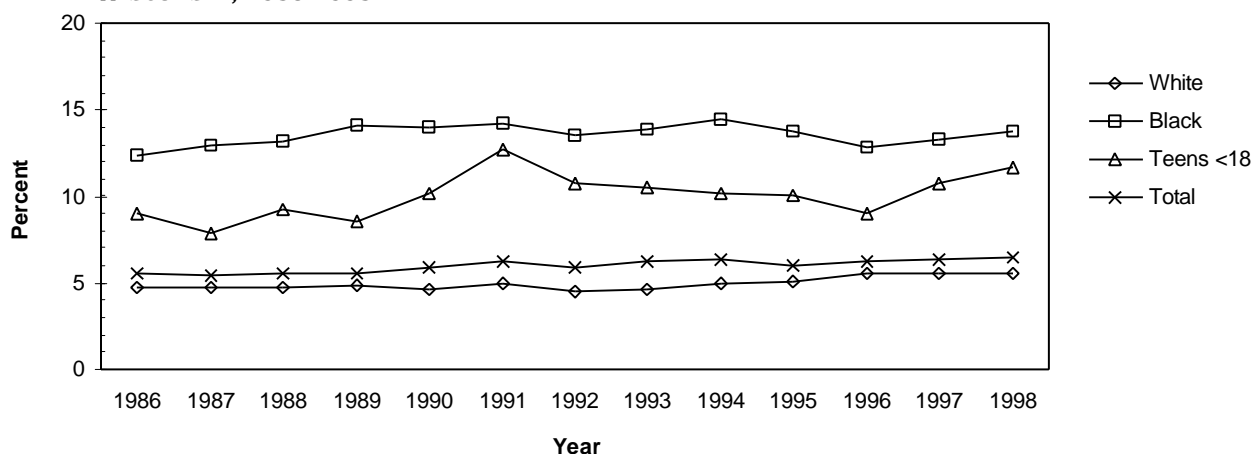
Low Birthweight

- In 1998, 4,412 Wisconsin infants weighed less than 2,500 grams (about 5.5 pounds) at birth. This total represented 6.5 percent of all births. In comparison, 7.6 percent of all infants born in the United States in 1998 weighed less than 2,500 grams at birth.
- 828 infants were born at very low birthweight (less than 1,500 grams or about 3.3 pounds), representing 1.2 percent of all births.
- Compared with the overall incidence of low birthweight in 1998 (6.5 percent), higher percentages of low-birthweight infants were born to:

Mothers who received no prenatal care (21.9 percent),
 Non-Hispanic black women (13.8 percent),
 Girls less than 15 years old (17.1 percent),
 Women who smoked during pregnancy (10.4 percent),
 Women with less than a high school education (9.9 percent),
 Women who were unmarried (9.8 percent).

- From 1988 to 1998, the low-birthweight percentage among infants born to mothers less than 18 years of age fluctuated from a low of 9.2 percent in 1988 to a high of 12.7 percent in 1991. In 1998, this percentage was 11.7 (compared with 6.4 among mothers age 18 and older).
- Forty-three percent of premature infants (gestation less than 37 weeks) were of low birthweight in 1998. (See Technical Notes, page 102, for full definition of prematurity.)
- Twins or other multiple births made up 22 percent of all low-birthweight births in 1998.

Figure 16. Percent of Births at Low Birthweight (<2,500 grams), Wisconsin, 1986-1998



Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

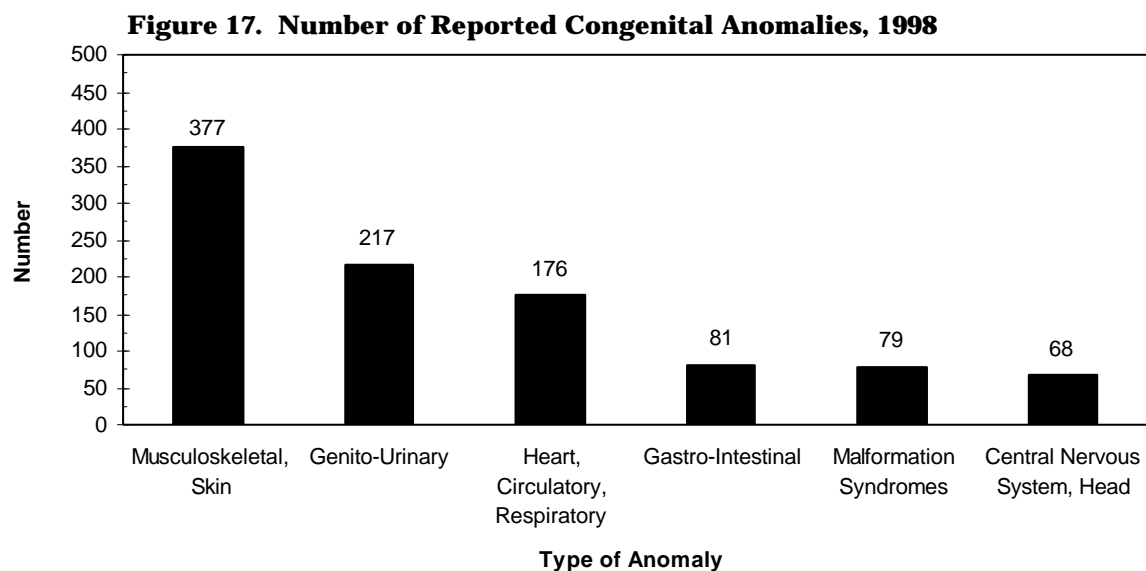
Congenital Anomalies

Reported Congenital Anomalies, Wisconsin 1998

Total Births With Reported Anomalies	988
Central Nervous System, Head	68
Anencephalus	12
Spina Bifida/Meningocele	23
Hydrocephalus	16
Microcephalus	7
Other Central Nervous System	14
Heart, Circulatory, Respiratory	176
Heart Malformations	134
Other Circulatory/Respiratory	52
Gastro-Intestinal	81
Rectal Atresia, Stenosis	21
Tracheo-Esophageal Fistula	12
Omphalocele, Gastroschisis	25
Other Gastrointestinal	25
Genito-Urinary	217
Malformed Genitalia	131
Renal Agenesis	14
Other Urogenital	77
Musculoskeletal/Skin	377
Cleft Lip, Palate	83
Polydactyly, Syndactyly, Adactyly	98
Club Foot	58
Diaphragmatic Hernia	8
Other Musculoskeletal/ Integumental	150
Malformation Syndromes	79
Down Syndrome	56
Other Chromosomal	23
All Other	75

Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Notes: These numbers reflect only those congenital anomalies that can be discerned at birth and are reported on the birth certificate. Many are not detected before the newborn is discharged from the hospital. Since more than one anomaly may be reported for each infant, the column does not add to total. This table is not comparable with congenital anomalies data published prior to 1989; see Technical Notes for explanation.

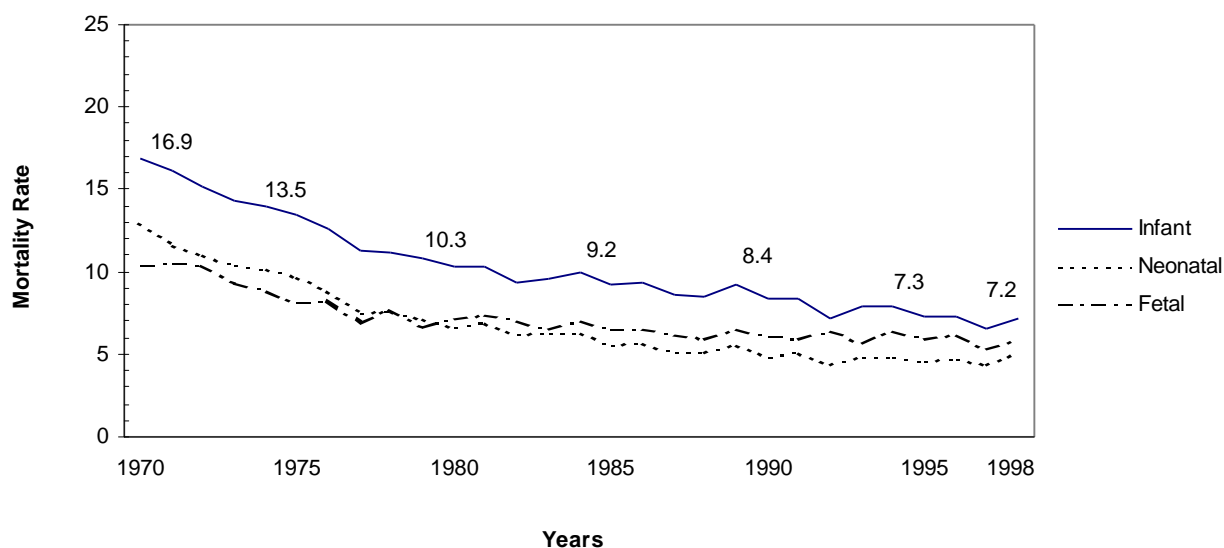


Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Mortality

- In Wisconsin, 488 infants under the age of one year died in 1998. The 1998 infant mortality rate was 7.2 infant deaths per 1,000 live births, higher than the 1997 rate (6.5). The 1998 U.S. preliminary infant mortality rate was also 7.2 infant deaths per 1,000 live births.
- There were 348 neonatal deaths (deaths of infants less than 28 days of age) in 1998. The neonatal mortality rate in 1998 was 5.1 neonatal deaths per 1,000 live births, compared with 4.4 in 1997 and 13.0 per 1,000 in 1970.
- The fetal mortality rate (fetal deaths per 1,000 live births and fetal deaths) was 5.9 in 1998. In comparison, the fetal mortality rate for 1970 was 10.4 per 1,000. (For the definition of “fetal death,” see Technical Notes, page 102.)

Figure 18. Infant, Neonatal, and Fetal Mortality Rates, 1970-1998



Source: Resident birth certificates, matched birth-death file and fetal death file, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

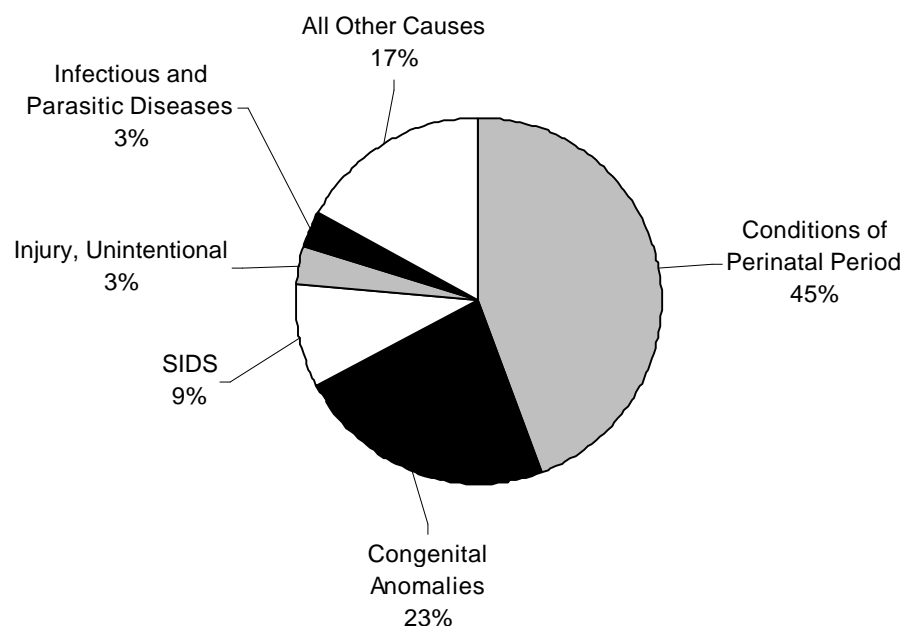
Notes: An infant death is one that occurs before one year of age. The infant death rate is the number of resident infant deaths divided by total resident live births times 1,000. For detailed information on 1998 infant, neonatal and fetal deaths, see Supplementary Table D, pages 93 and 94.

- The black infant mortality rate for 1998 (17.9 deaths per 1,000 births to black mothers) was higher than the comparable rate in 1997 (13.4), and similar to the comparable 1988 rate (17.2).
- The 1998 white infant mortality rate (5.6 deaths per 1,000 births to white mothers) was similar to the 1997 rate (5.5), but lower than the 1988 rate (7.2).
- Infants born to teenagers are at a higher risk of death than infants born to older mothers. In 1998, the infant mortality rate was 13.9 per 1,000 births among infants born to mothers aged 15-19, compared with 6.4 per 1,000 among infants born to women aged 20 and older.
- There were 6 maternal deaths in 1998; these are deaths attributed to pregnancy-related health conditions or events of delivery.

Causes of Infant Death

- “Conditions of the perinatal period” accounted for 45 percent of infant deaths in 1998. This category includes a variety of conditions that occur just before, during and after birth, such as pregnancy complications; complications of the placenta, cord and membranes; and unspecified prematurity and low birthweight.
- Congenital anomalies accounted for about 23 percent of infant deaths in 1998.
- Nine percent of infant deaths in 1998 were attributed to Sudden Infant Death Syndrome (SIDS).

Figure 19. Leading Causes of Infant Death, 1998



Source: Resident birth certificates, matched birth-death file and fetal death file, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Table 1. Population, Births by Sex, Crude and General Fertility Rates by County of Residence, Wisconsin 1998

County	Estimated Population	Total Births	Male	Female	Crude Birth Rate	General Fertility Rate
Total	5,255,180	67,379	34,306	33,072	12.8	58.1
Adams	18,000	167	87	80	9.3	59.4
Ashland	16,790	208	113	95	12.4	58.6
Barron	42,860	475	243	232	11.1	54.8
Bayfield	14,650	139	71	68	9.5	50.0
Brown	219,320	3,130	1,580	1,550	14.3	62.0
Buffalo	13,860	143	76	67	10.3	51.6
Burnett	14,070	149	74	75	10.6	59.2
Calumet	39,250	480	256	224	12.2	54.8
Chippewa	55,020	633	336	297	11.5	55.0
Clark	32,770	537	253	284	16.4	84.7
Columbia	49,530	620	303	317	12.5	63.1
Crawford	16,740	206	102	104	12.3	63.2
Dane	409,910	5,125	2,684	2,441	12.5	49.0
Dodge	83,860	944	471	473	11.3	56.6
Door	26,640	239	132	107	9.0	45.6
Douglas	42,270	509	225	284	12.0	56.9
Dunn	38,500	471	228	243	12.2	47.6
Eau Claire	91,200	1,058	523	535	11.6	46.1
Florence	5,120	33	18	15	6.4	32.7
Fond du Lac	96,460	1,141	572	569	11.8	54.7
Forest	9,350	93	45	48	9.9	52.6
Grant	49,910	505	263	242	10.1	50.4
Green	32,130	379	180	199	11.8	57.0
Green Lake	19,700	228	110	118	11.6	59.0
Iowa	22,060	290	139	151	13.1	60.9
Iron	6,350	38	15	23	6.0	35.0
Jackson	18,370	198	112	86	10.8	56.1
Jefferson	73,680	892	460	432	12.1	54.1
Juneau	23,540	277	139	138	11.8	60.6
Kenosha	142,140	2,077	1,071	1,006	14.6	66.3
Kewaunee	20,040	220	119	101	11.0	53.8
La Crosse	105,770	1,267	628	639	12.0	48.1
Lafayette	16,310	175	87	88	10.7	52.3
Langlade	20,650	199	105	94	9.6	49.5
Lincoln	28,990	304	158	146	10.5	51.6
Manitowoc	84,760	922	503	419	10.9	53.3
Marathon	126,090	1,476	756	720	11.7	54.4

(Continued)

Table 1. Population, Births by Sex, Crude and General Fertility Rates by County of Residence, Wisconsin 1998

County	Estimated Population	Total Births	Male	Female	Crude Birth Rate	General Fertility Rate
Marinette	42,730	445	232	213	10.4	52.7
Marquette	13,910	126	67	59	9.1	49.0
Menominee	4,310	89	45	44	20.6	97.9
Milwaukee	956,460	14,733	7,491	7,241	15.4	66.4
Monroe	39,000	549	293	256	14.1	68.7
Oconto	33,380	367	186	181	11.0	55.2
Oneida	34,600	332	171	161	9.6	53.2
Outagamie	157,050	2,172	1,107	1,065	13.8	61.4
Ozaukee	80,430	967	498	469	12.0	57.9
Pepin	7,220	81	42	39	11.2	60.8
Pierce	34,730	434	239	195	12.5	49.6
Polk	37,230	425	220	205	11.4	57.9
Portage	67,130	741	368	373	11.0	44.9
Price	16,310	157	85	72	9.6	51.6
Racine	187,750	2,633	1,356	1,277	14.0	64.0
Richland	17,810	199	96	103	11.2	57.3
Rock	150,310	2,040	1,037	1,003	13.6	63.4
Rusk	15,330	158	67	91	10.3	53.4
St. Croix	57,770	777	411	366	13.4	60.2
Sauk	52,640	711	359	352	13.5	64.5
Sawyer	15,600	154	81	73	9.9	55.6
Shawano	38,830	467	233	234	12.0	62.4
Sheboygan	111,890	1,323	677	646	11.8	56.6
Taylor	19,530	225	125	100	11.5	54.9
Trempealeau	26,400	337	162	175	12.8	65.9
Vernon	26,570	344	178	166	12.9	66.5
Vilas	19,540	175	84	91	9.0	57.4
Walworth	85,180	1,067	548	519	12.5	56.2
Washburn	14,920	148	80	68	9.9	54.1
Washington	113,190	1,469	720	749	13.0	60.1
Waukesha	347,480	4,124	2,045	2,079	11.9	55.2
Waupaca	49,970	596	310	286	11.9	58.2
Waushara	21,080	240	134	106	11.4	62.2
Winnebago	154,540	1,725	865	860	11.2	49.7
Wood	77,720	902	457	445	11.6	54.5

Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Notes: Included in the total is 1 birth for which sex was not reported. The crude birth rate is the number of resident live births divided by the resident population times 1,000. The general fertility rate is the number of resident live births divided by the number of females ages 15-44 times 1,000.
Population estimates are from the Wisconsin Bureau of Health Information; these estimates do not add to total due to rounding.

Table 2. Population, Births and Crude Birth Rates by Selected Cities of Residence, Wisconsin 1998

City	Estimated Population	Births	Crude Birth Rate
Appleton	69,607	1,134	16.3
Beloit	36,204	626	17.3
Eau Claire	60,449	701	11.6
Fond du Lac	41,105	585	14.2
Green Bay	102,726	1,799	17.5
Janesville	59,223	867	14.6
Kenosha	87,314	1,699	19.5
La Crosse	52,369	604	11.5
Madison	203,211	2,678	13.2
Manitowoc	34,334	434	12.6
Mequon/Thiensville	24,648	245	9.9
Milwaukee	610,654	11,000	18.0
Neenah/Menasha	40,710	582	14.3
Oshkosh	62,185	714	11.5
Racine	85,552	1,642	19.2
Sheboygan	51,050	658	12.9
Stevens Point	24,393	313	12.8
Superior	27,296	357	13.1
Watertown	21,024	305	14.5
Waukesha	62,197	1,031	16.6
Wausau	38,777	505	13.0
West Bend	28,326	444	15.7

Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.
Population estimates are from the Wisconsin Department of Administration.

Notes: The crude birth rate is the number of resident live births divided by the resident population times 1,000.

Table 3. Number of Births by County of Residence and Selected Minor Civil Divisions, Wisconsin 1998

STATE TOTAL	67,379	Lafayette (T)	47	DOOR	239
Urban*	52,289	Balance of County	279	Sevastopol (T)	15
Balance of State	15,090			Sturgeon Bay (C)	106
ADAMS	167	CLARK	537	Balance of County	118
		Neillsville (C)	41		
ASHLAND	208	Balance of County	496	DOUGLAS	509
Ashland (C)	105			Superior (C)	357
Balance of County	103	COLUMBIA	620	Balance of County	152
		Columbus (C)	61		
BARRON	475	Portage (C)	113	DUNN	471
Barron (C)	45	Balance of County	446	Menomonie (C)	161
Rice Lake (C)	120			Menomonie (T)	28
Balance of County	310	CRAWFORD	206	Balance of County	282
		Prairie du Chien (C)	99		
BAYFIELD	139	Balance of County	107	EAU CLAIRE	1,058
				Altoona (C)	92
BROWN	3,130	DANE	5,125	Eau Claire (C) (Pt.)	688
Allouez (V)	132	Burke (T)	25	Seymour (T)	24
Ashwaubenon (V)	149	Cottage Grove (T)	53	Washington (T)	35
Bellevue (T)	140	Cross Plains (V)	53	Balance of County	219
De Pere (C)	308	De Forest (V)	125		
Green Bay (C)	1,799	Dunn (T)	31	FLORENCE	33
Hobart (T)	43	Fitchburg (C)	135		
Howard (V)	134	Madison (C)	2,678	FOND DU LAC	1,141
Pulaski (V)	41	Madison (T)	18	Fond du Lac (C)	585
Suamico (T)	91	Marshall (V)	57	North Fond du Lac (V)	60
Balance of County	293	McFarland (V)	77	Ripon (C)	85
		Middleton (C)	169	Taycheedah (T)	33
BUFFALO	143	Middleton (T)	28	Waupun (C) (Pt.)	32
Mondovi (C)	24	Monona (C)	65	Balance of County	346
Balance of County	119	Mount Horeb (V)	83		
		Oregon (T)	44	FOREST	93
BURNETT	149	Oregon (V)	96		
		Pleasant Springs (T)	16	GRANT	505
CALUMET	480	Springfield (T)	21	Boscobel (C)	54
Appleton (C) (Pt.)	147	Stoughton (C)	228	Lancaster (C)	62
Brillion (C)	42	Sun Prairie (C)	319	Platteville (C)	87
Chilton (C)	40	Verona (C)	64	Balance of County	302
Harrison (T)	64	Waunakee (V)	121		
Kiel (C) (Pt.)	4	Westport (T)	18	GREEN	379
Menasha (C) (Pt.)	13	Windsor (T)	46	Brodhead (C)	40
New Holstein (C)	31	Balance of County	555	Monroe (C)	143
Balance of County	139			Balance of County	196
		DODGE	944		
CHIPPEWA	633	Beaver Dam (C)	222	GREEN LAKE	228
Bloomer (C)	44	Beaver Dam (T)	31	Berlin (C) (Pt.)	76
Chippewa Falls (C)	185	Horicon (C)	45	Balance of County	152
Eagle Point (T)	17	Mayville (C)	52		
Eau Claire (C) (Pt.)	13	Watertown (C) (Pt.)	91	IOWA	290
Hallie (T)	48	Waupun (C) (Pt.)	66	Dodgeville (C)	63
		Balance of County	437	Balance of County	227

* Sum of incorporated places having a population of 2,500 or more according to the latest population estimates available.

(Continued)

Table 3. Number of Births by County of Residence and Selected Minor Civil Divisions, Wisconsin 1998

IRON	38	LANGLADE	199	Shorewood	130
		Antigo (C)	110	South Milwaukee (C)	264
JACKSON	198	Balance of County	89	St. Francis (C)	75
Black River Falls (C)	60			Wauwatosa (C)	584
Balance of County	138	LINCOLN	304	West Allis (C)	729
		Merrill (C)	147	West Milwaukee (V)	42
JEFFERSON	892	Merrill (T)	12	Whitefish Bay (V)	200
Ft. Atkinson (C)	143	Tomahawk (C)	42	Balance of County	11
Ixonia (T)	19	Balance of County	103		
Jefferson (C)	101			MONROE	549
Jefferson (T)	22	MANITOWOC	922	Sparta (C)	141
Koshkonong (T)	21	Kiel (C) (Pt.)	50	Tomah (C)	118
Lake Mills (C)	67	Manitowoc (C)	434	Balance of County	290
Oakland (T)	21	Manitowoc Rapids (T)	4		
Waterloo (C)	47	Two Rivers (C)	143	OCONTO	367
Watertown (C) (Pt.)	214	Balance of County	291	Little Suamico (T)	52
Whitewater (C) (Pt.)	26			Oconto (C)	59
Balance of County	211	MARATHON	1,476	Oconto Falls (C)	35
		Kronenwetter (T)	36	Balance of County	221
JUNEAU	277	Marshfield (C) (PT.)	6		
Mauston (C)	56	Mosinee (C)	88	ONEIDA	332
Balance of County	221	Rib Mountain (T)	55	Minocqua (T)	29
		Rothschild (V)	46	Pelican (T)	22
KENOSHA	2,077	Wausau (C)	505	Rhineland (C)	96
Bristol (T)	23	Weston (V)	84	Balance of County	185
Kenosha (C)	1,699	Balance of County	656		
Paddock Lake (V)	20			OUTAGAMIE	2,172
Pleasant Prairie (V)	79	MARINETTE	445	Appleton (C) (Pt.)	962
Randall (T)	15	Marinette (C)	133	Buchanan (T)	69
Salem (T)	83	Peshtigo (C)	33	Center (T)	18
Somers (T)	27	Peshtigo (T)	33	Freedom (T)	66
Twin Lakes (V)	69	Balance of County	246	Grand Chute (T)	105
Wheatland (T)	21			Greenville (T)	98
Balance of County	41	MARQUETTE	126	Kaukauna (C)	204
				Kimberly (V)	64
KEWAUNEE	220	MENOMINEE	89	Little Chute (V)	128
Algoma (C)	33	Menominee (T)	89	New London (C) (Pt.)	31
Kewaunee (C)	28			Oneida (T)	46
Balance of County	159	MILWAUKEE	14,733	Seymour (C)	56
		Bayside (V)(Pt.)	32	Balance of County	325
LA CROSSE	1,267	Brown Deer (V)	121		
Campbell (T)	34	Cudahy (C)	235	OZAUKEE	967
Holmen (V)	112	Fox Point (V)	81	Cedarburg (C)	120
La Crosse (C)	604	Franklin (C)	289	Cedarburg (T)	63
Onalaska (C)	206	Glendale (C)	93	Grafton (T)	50
Onalaska (T)	43	Greendale (V)	122	Grafton (V)	129
Shelby (T)	34	Greenfield (C)	308	Mequon (C)	213
West Salem (V)	83	Hales Corners (V)	64	Port Washington (C)	149
Balance of County	151	Milwaukee (C) (Pt.)	10,998	Saukville (V)	69
		Oak Creek (C)	355	Thiensville (V)	32
LAFAYETTE	175			Balance of County	142

(Continued)

Table 3. Number of Births by County of Residence and Selected Minor Civil Divisions, Wisconsin 1998

PEPIN	81	Milton (C)	69	TREMPEALEAU	337
		Milton (T)	20		
PIERCE	434	Rock (T)	11	VERNON	344
Ellsworth (V)	36	Balance of County	192	Viroqua (C)	47
Prescott (C)	62			Balance of County	297
River Falls (C) (Pt.)	127	RUSK	158		
Balance of County	209	Ladysmith (C)	58	VILAS	175
		Balance of County	100	Arbor Vitae (T)	20
POLK	425			Lac du Flambeau (T)	43
Amery (C)	52	ST.CROIX	777	Balance of County	112
Balance of County	373	Hudson (C)	210		
		Hudson (T)	59	WALWORTH	1,067
PORTAGE	741	New Richmond (C)	93	Bloomfield (T)	41
Hull (T)	29	North Hudson (V)	14	Burlington (C) (Pt.)	10
Plover (V)	147	River Falls (C) (Pt.)	33	Delavan (C)	161
Stevens Point (C)	313	St. Joseph (T)	37	Delavan (T)	57
Stockton (T)	25	Troy (T)	25	East Troy (T)	32
Balance of County	227	Balance of County	306	East Troy (V)	60
				Elkhorn (C)	128
PRICE	157	SAUK	711	Geneva (T)	33
Park Falls (C)	30	Baraboo (C)	164	Lake Geneva (C)	114
Balance of County	127	Prairie Du Sac (V)	43	Lyons (T)	30
		Reedsburg (C)	136	Sugar Creek (T)	35
RACINE	2,633	Sauk City (V)	48	Whitewater (C) (Pt.)	71
Burlington (C) (Pt.)	126	Balance of County	320	Balance of County	295
Burlington (T)	70				
Caledonia (T)	190	SAWYER	154	WASHBURN	148
Dover (T)	25	Hayward (T)	34	Spooner (C)	37
Mt. Pleasant (T)	132	Balance of County	120	Balance of County	111
Norway (T)	97				
Racine (C)	1,642	SHAWANO	467	WASHINGTON	1,469
Raymond (T)	24	Shawano (C)	122	Addison (T)	37
Sturtevant (V)	53	Wescott (T)	26	Barton (T)	18
Union Grove (V)	77	Balance of County	319	Erin (T)	30
Waterford (T)	74			Farmington(T)	26
Waterford (V)	64	SHEBOYGAN	1,323	Germantown (V)	220
Yorkville (T)	16	Holland (T)	17	Hartford (C)	156
Balance of County	43	Howards Grove (V)	34	Hartford (T)	38
		Lima (T)	24	Jackson (T)	39
RICHLAND	199	Plymouth (C)	103	Jackson (V)	71
Richland Center (C)	73	Plymouth (T)	24	Kewaskum (V)	52
Balance of County	126	Sheboygan (C)	658	Milwaukee (C) (Pt.)	2
		Sheboygan (T)	61	Polk (T)	26
ROCK	2,040	Sheboygan Falls (C)	76	Richfield (T)	111
Beloit (C)	626	Wilson (T)	21	Slinger (V)	63
Beloit (T)	44	Balance of County	305	Trenton (T)	36
Edgerton (C)	79			West Bend (C)	444
Evansville (C)	97	TAYLOR	225	West Bend (T)	40
Fulton (T)	13	Medford (C)	61	Balance of County	60
Janesville (C)	867	Balance of County	164		
Janesville (T)	22				

(Continued)

Table 3. Number of Births by County of Residence and Selected Minor Civil Divisions, Wisconsin 1998

WAUKESHA	4,124	Pewaukee (V)	117	WINNEBAGO	1,725
Brookfield (C)	306	Summit (T)	22	Algoma (T)	34
Brookfield (T)	90	Sussex (V)	161	Appleton (C) (Pt.)	25
Delafield (C)	59	Vernon (T)	47	Menasha (C) (Pt.)	241
Delafield (T)	45	Wales (V)	28	Menasha (T)	141
Elm Grove (V)	32	Waukesha (C)	1,031	Neenah (C)	328
Genesse (T)	57	Waukesha (T)	95	Neenah (T)	23
Hartland (V)	136	Balance of County	230	Omro (C)	44
Lisbon (T)	68			Oshkosh (C)	714
Menomonee Falls (V)	369	WAUPACA	596	Oshkosh (T)	20
Merton (T)	52	Clintonville (C)	79	Balance of County	155
Mukwonago (T)	68	Farmington (T)	27		
Mukwonago (V)	83	New London (C) (Pt.)	78	WOOD	902
Muskego (C)	272	Waupaca (C)	81	Grand Rapids (T)	51
New Berlin (C)	397	Balance of County	331	Marshfield (C) (Pt.)	219
Oconomowoc (C)	163			Nekoosa (C)	46
Oconomowoc (T)	54	WAUSHARA	240	Saratoga (T)	36
Ottawa (T)	19	Berlin (C) (Pt.)	3	Wisconsin Rapids (C)	315
Pewaukee (T)	123	Balance of County	237	Balance of County	235

Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Table 4. Births by County, City and Hospital of Occurrence, Wisconsin 1998

County	City	Hospital	Births
Ashland	Ashland	Memorial Medical Center	308
Barron	Cumberland	Cumberland Memorial Hospital	65
	Rice Lake	Lakeview Medical Center	396
	Barron	Barron Memorial Medical Center	78
Brown	Green Bay	Bellin Memorial Hospital	1,937
	Green Bay	St. Mary's Hospital Medical Center	553
	Green Bay	St. Vincent Hospital	1,585
Burnett	Grantsburg	Burnett Medical Center, Inc.	57
Chippewa	Bloomer	Bloomer Community Memorial Hospital	43
	Chippewa Falls	St. Joseph's Hospital	429
Clark	Neillsville	Memorial Hospital, Inc.	38
Columbia	Columbus	Columbus Community Hospital, Inc.	138
	Portage	Divine Savior Hospital and Nursing Home, Inc.	171
Crawford	Prairie du Chien	Prairie du Chien Memorial Hospital	187
Dane	Madison	Meriter Hospital, Inc.	3,273
	Madison	St. Mary's Hospital Medical Center	2,943
Dodge	Beaver Dam	Beaver Dam Community Hospitals, Inc.	390
	Watertown	Watertown Memorial Hospital	288
	Wausau	Wausau Memorial Hospital	109
Door	Sturgeon Bay	Door County Memorial Hospital	160
Douglas	Superior	St. Mary's Hospital of Superior	1
Dunn	Menomonie	Myrle Werth Hospital	267
Eau Claire	Eau Claire	Luther Hospital	863
	Eau Claire	Sacred Heart Hospital	745
Fond du Lac	Fond du Lac	St. Agnes Hospital	937
	Ripon	Ripon Medical Center	102
Grant	Boscobel	Boscobel Area Health Care	67
	Lancaster	Grant Regional Health Center, Inc.	107
	Platteville	Southwest Health Center, Inc.	146
Green	Monroe	The Monroe Clinic	446
Green Lake	Berlin	Berlin Memorial Hospital	205
Iowa	Dodgeville	Memorial Hospital of Iowa County, Inc.	230
Jackson	Black River Falls	Black River Memorial Hospital	170
Jefferson	Ft. Atkinson	Ft Atkinson Memorial Health Services	438
Juneau	Mauston	Hess Memorial Hospital	207
Kenosha	Kenosha	Kenosha Hospital and Medical Center	999
	Kenosha	St. Catherine's Hospital	565
Kewaunee	Kewaunee	St. Mary's Kewaunee Area Memorial Hospital	14
La Crosse	La Crosse	Gundersen Lutheran Hospital - La Crosse	1,510
	La Crosse	Franciscan Skemp Healthcare - La Crosse	730
Lafayette	Darlington	Memorial Hospital of Lafayette County	40
Langlade	Antigo	Langlade Memorial Hospital	181
Lincoln	Merrill	Good Samaritan Health Center	149
	Tomahawk	Sacred Heart Hospital, Inc.	1
Manitowoc	Manitowoc	Holy Family Memorial Medical Center	449
	Two Rivers	Two Rivers Community Hospital, Inc.	302
Marathon	Wausau	Wausau Hospital	1,351
Marinette	Marinette	Bay Area Medical Center	406
Milwaukee	Milwaukee	Columbia Hospital	1,167
	Milwaukee	Sinai-Samaritan Medical Center	2,999
	Milwaukee	St. Francis Hospital	1,637
	Milwaukee	St. Joseph's Hospital - Milwaukee	3,751
	Milwaukee	St. Luke's Medical Center	1,378
	Milwaukee	St. Mary's Hospital - Milwaukee	2,561
	Milwaukee	St. Michael Hospital	1,048

(Continued)

County	City	Hospital	Births
Milwaukee	Wauwatosa	Froedtert Memorial Lutheran Hospital	904
	West Allis	West Allis Memorial Hospital	685
Monroe	Sparta	Franciscan Skemp Healthcare – Sparta	124
	Tomah	Tomah Memorial Hospital, Inc.	197
Oconto	Oconto Falls	Community Memorial Hospital	47
Oneida	Rhineland	Sacred Heart-St. Mary's Hospital, Inc.	435
	Woodruff	Howard Young Medical Center, Inc.	238
Outagamie	Appleton	Appleton Medical Center	1,202
	Appleton	St. Elizabeth Hospital	1,411
	New London	New London Family Medical Center	170
Ozaukee	Ozaukee	St. Mary's Hospital – Ozaukee	722
Pepin	Durand	Chippewa Valley Hospital	30
Polk	Amery	Apple River Hospital	111
	Osceola	Osceola Medical Center	86
	St. Croix	St. Croix Valley Memorial Hospital	281
Portage	Stevens Point	St. Michael's Hospital	709
Price	Park Falls	Flambeau Medical Center	110
Racine	Burlington	Memorial Hospital Corporation of Burlington	470
	Racine	St. Luke's Memorial Hospital	2,052
Richland	Richland Center	The Richland Hospital, Inc.	182
Rock	Beloit	Beloit Memorial Hospital, Inc.	684
	Janesville	Mercy Health System	1,346
Rusk	Ladysmith	Rusk County Memorial Hospital	119
Sauk	Baraboo	St. Clare Hospital and Health Services	298
	Prairie du Sac	Sauk-Prairie Memorial Hospital	230
	Reedsburg	Reedsburg Area Medical Center	207
Sawyer	Hayward	Hayward Area Memorial Hospital	121
Shawano	Shawano	Shawano Medical Center	357
Sheboygan	Plymouth	Valley View Medical Center	175
	Sheboygan	Sheboygan Memorial Medical Center	880
	Sheboygan	St. Nicholas Hospital	344
St. Croix	Baldwin	Baldwin Hospital, Inc.	90
	Hudson	Hudson Memorial Hospital, Inc.	170
	New Richmond	Holy Family Hospital	126
	River Falls	River Falls Area Hospital	268
Taylor	Medford	Memorial Hospital of Taylor County, Inc.	182
Trempealeau	Arcadia	Franciscan Skemp Healthcare – Arcadia	42
	Osseo	Osseo Area Municipal Hospital	1
Vernon	Hillsboro	St. Joseph's Memorial Hospital, Inc.	29
	Viroqua	Vernon Memorial Hospital	169
Walworth	Elkhorn	Lakeland Medical Center, Inc.	542
Washburn	Shell Lake	Indianhead Medical Center, Inc.	22
	Spooner	Spooner Community Memorial Hospital	81
Washington	Hartford	Hartford Memorial Hospital	209
	West Bend	St. Joseph's Community Hospital	788
Waukesha	Brookfield	Elmbrook Memorial Hospital	1,015
	Menomonee Falls	Community Memorial Hospital	856
	Oconomowoc	Memorial Hospital at Oconomowoc	514
	Waukesha	Waukesha Memorial Hospital, Inc.	2,217
Waupaca	Waupaca	Riverside Medical Center	251
Waushara	Wild Rose	Wild Rose Community Memorial Hospital, Inc.	9
Winnebago	Neenah	Theda Clark Medical Center	1,013
	Oshkosh	Mercy Medical Center	948
Wood	Marshfield	St. Joseph's Hospital	1,226
	Wisconsin Rapids	Riverview Hospital Association	583

Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Note: Number shown includes all births that occurred at the hospital, including births to women who were not Wisconsin residents.

Table 5. Home Births by County of Birth, Wisconsin 1998

County of Birth	Number of Births	County of Birth	Number of Births
Adams	-	Marathon	28
Ashland	5	Marinette	7
Barron	5	Marquette	7
Bayfield	6	Menominee	1
Brown	20	Milwaukee	41
Buffalo	1	Monroe	67
Burnett	1	Oconto	4
Calumet	5	Oneida	4
Chippewa	4	Outagamie	13
Clark	107	Ozaukee	5
Columbia	18	Pepin	9
Crawford	7	Pierce	-
Dane	15	Polk	7
Dodge	6	Portage	12
Door	1	Price	1
Douglas	2	Racine	4
Dunn	7	Richland	8
Eau Claire	29	Rock	9
Florence	-	Rusk	4
Fond du Lac	10	St. Croix	5
Forest	-	Sauk	28
Grant	10	Sawyer	3
Green	2	Shawano	12
Green Lake	19	Sheboygan	9
Iowa	1	Taylor	6
Iron	-	Trempealeau	6
Jackson	2	Vernon	49
Jefferson	8	Vilas	2
Juneau	2	Walworth	9
Kenosha	14	Washburn	2
Kewaunee	4	Washington	16
La Crosse	2	Waukesha	18
Lafayette	-	Waupaca	14
Langlade	1	Waushara	14
Lincoln	1	Winnebago	12
Manitowoc	3	Wood	2
		Total	757

Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Notes: This table shows the number of Wisconsin resident births in 1998 that occurred at home by the county in which the birth occurred. (The county in which the home birth occurred is not always the residence of the mother.) In Vernon County, 34 deliveries took place at a clinic; these births are not included in either the hospital or the home birth totals shown. Almost all births (66,581 or 99 percent) occurred in hospitals. A dash (-) indicates there were no births in that county. Included in the total is 1 home birth for which county was not reported.

Table 6a. Number of Births by Age of Mother and County of Residence, Wisconsin 1998

County	Total	< 15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+
Total	67,379	111	2,366	4,570	14,632	19,932	17,126	7,385	1,191	61
Adams	167	-	10	18	45	45	30	19	-	-
Ashland	208	-	4	13	46	64	43	35	3	-
Barron	475	-	17	42	140	134	100	32	8	2
Bayfield	139	-	1	10	32	35	42	15	4	-
Brown	3,130	3	91	184	607	975	865	340	60	5
Buffalo	143	-	2	5	31	50	39	16	-	-
Burnett	149	1	3	10	52	49	26	5	3	-
Calumet	480	-	8	28	63	168	148	54	8	3
Chippewa	633	1	23	49	177	191	131	55	6	-
Clark	537	-	18	25	131	174	125	46	15	3
Columbia	620	-	19	41	131	191	152	72	14	-
Crawford	206	-	7	14	59	54	43	25	4	-
Dane	5,125	4	110	216	771	1,485	1,627	780	127	5
Dodge	944	-	20	48	210	319	239	94	14	-
Door	239	-	2	17	48	56	71	40	5	-
Douglas	509	-	20	37	151	154	94	45	8	-
Dunn	471	-	13	34	111	166	106	32	8	1
Eau Claire	1,058	1	26	51	245	372	256	93	14	-
Florence	33	-	-	-	10	13	8	1	1	-
Fond du Lac	1,141	-	23	73	261	372	285	104	23	-
Forest	93	-	6	13	25	23	15	8	1	2
Grant	505	-	17	35	128	150	112	52	11	-
Green	379	-	8	15	81	118	104	45	8	-
Green Lake	228	-	5	17	51	63	62	23	6	1
Iowa	290	-	3	6	59	105	90	24	2	1
Iron	38	-	-	1	12	9	6	9	1	-
Jackson	198	1	6	19	54	60	34	24	-	-
Jefferson	892	-	27	59	213	288	213	79	11	2
Juneau	277	1	11	29	82	78	49	23	4	-
Kenosha	2,077	5	90	161	502	611	479	200	28	1
Kewaunee	220	-	5	7	33	88	65	19	3	-
La Crosse	1,267	2	33	80	262	399	323	157	11	-
Lafayette	175	-	2	8	35	70	38	18	4	-
Langlade	199	-	10	17	50	60	36	19	7	-
Lincoln	304	1	7	27	79	100	66	23	-	1
Manitowoc	922	1	26	67	213	276	236	92	11	-
Marathon	1,476	-	31	89	313	489	386	140	27	1
Marinette	445	-	14	27	112	141	96	47	8	-
Marquette	126	-	-	9	38	42	22	13	2	-
Menominee	89	-	8	12	28	18	16	5	2	-
Milwaukee	14,733	60	903	1,482	3,781	3,727	3,081	1,460	228	10
Monroe	549	-	24	39	143	173	103	53	13	1

(Continued)

Table 6a. Number of Births by Age of Mother and County of Residence, Wisconsin 1998

County	Total	< 15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+
Oconto	367	-	10	25	80	105	102	34	11	-
Oneida	332	-	7	24	73	92	92	36	8	-
Outagamie	2,172	3	50	91	414	683	688	215	26	2
Ozaukee	967	-	8	24	118	239	344	194	35	5
Pepin	81	-	2	3	15	27	23	6	5	-
Pierce	434	-	7	20	106	153	106	34	8	-
Polk	425	-	12	26	108	155	83	35	6	-
Portage	741	-	32	43	150	255	186	60	11	3
Price	157	-	-	13	43	45	42	11	3	-
Racine	2,633	11	136	218	600	740	632	244	52	-
Richland	199	-	3	15	56	64	33	21	7	-
Rock	2,040	6	94	152	521	625	448	173	19	2
Rusk	158	1	3	9	52	50	27	12	4	-
St. Croix	777	-	12	30	126	264	234	105	5	-
Sauk	711	1	19	46	153	251	155	72	12	2
Sawyer	154	-	9	14	47	37	34	10	3	-
Shawano	467	-	12	31	111	154	109	42	8	-
Sheboygan	1,323	-	49	89	267	402	345	150	21	-
Taylor	225	-	7	12	59	81	47	17	2	-
Trempealeau	337	-	5	23	71	116	77	39	6	-
Vernon	344	1	10	14	78	95	87	42	16	1
Vilas	175	-	3	10	49	56	38	16	3	-
Walworth	1,067	-	44	65	241	320	249	128	20	-
Washburn	148	1	3	9	38	51	29	12	5	-
Washington	1,469	3	27	58	210	452	479	205	34	1
Waukesha	4,124	1	53	152	453	1,130	1,536	699	95	3
Waupaca	596	-	20	48	143	203	130	49	3	-
Waushara	240	-	10	19	65	77	38	22	9	-
Winnebago	1,725	2	43	97	358	551	472	173	26	3
Wood	902	-	23	56	212	304	199	93	15	-

Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Notes: Included in the totals are 5 births for which age of mother was not reported. A dash (-) indicates that there were no events in that category.

Table 6b. Percent of Births by Age of Mother and County of Residence, Wisconsin 1998

County	Total	<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+
Total	67,379	0.2%	3.5%	6.8%	21.7%	29.6%	25.4%	11.0%	1.8%	0.1%
Adams	167	-	6.0	10.8	26.9	26.9	18.0	11.4	-	-
Ashland	208	-	1.9	6.3	22.1	30.8	20.7	16.8	1.4	-
Barron	475	-	3.6	8.8	29.5	28.2	21.1	6.7	1.7	0.4
Bayfield	139	-	0.7	7.2	23.0	25.2	30.2	10.8	2.9	-
Brown	3,130	0.1	2.9	5.9	19.4	31.2	27.6	10.9	1.9	0.2
Buffalo	143	-	1.4	3.5	21.7	35.0	27.3	11.2	-	-
Burnett	149	0.7	2.0	6.7	34.9	32.9	17.4	3.4	2.0	-
Calumet	480	-	1.7	5.8	13.1	35.0	30.8	11.3	1.7	0.6
Chippewa	633	0.2	3.6	7.7	28.0	30.2	20.7	8.7	0.9	-
Clark	537	-	3.4	4.7	24.4	32.4	23.3	8.6	2.8	0.6
Columbia	620	-	3.1	6.6	21.1	30.8	24.5	11.6	2.3	-
Crawford	206	-	3.4	6.8	28.6	26.2	20.9	12.1	1.9	-
Dane	5,125	0.1	2.1	4.2	15.0	29.0	31.7	15.2	2.5	0.1
Dodge	944	-	2.1	5.1	22.2	33.8	25.3	10.0	1.5	-
Door	239	-	0.8	7.1	20.1	23.4	29.7	16.7	2.1	-
Douglas	509	-	3.9	7.3	29.7	30.3	18.5	8.8	1.6	-
Dunn	471	-	2.8	7.2	23.6	35.2	22.5	6.8	1.7	0.2
Eau Claire	1,058	0.1	2.5	4.8	23.2	35.2	24.2	8.8	1.3	-
Florence	33	-	-	-	30.3	39.4	24.2	3.0	3.0	-
Fond du Lac	1,141	-	2.0	6.4	22.9	32.6	25.0	9.1	2.0	-
Forest	93	-	6.5	14.0	26.9	24.7	16.1	8.6	1.1	2.2
Grant	505	-	3.4	6.9	25.3	29.7	22.2	10.3	2.2	-
Green	379	-	2.1	4.0	21.4	31.1	27.4	11.9	2.1	-
Green Lake	228	-	2.2	7.5	22.4	27.6	27.2	10.1	2.6	0.4
Iowa	290	-	1.0	2.1	20.3	36.2	31.0	8.3	0.7	0.3
Iron	38	-	-	2.6	31.6	23.7	15.8	23.7	2.6	-
Jackson	198	0.5	3.0	9.6	27.3	30.3	17.2	12.1	-	-
Jefferson	892	-	3.0	6.6	23.9	32.3	23.9	8.9	1.2	0.2
Juneau	277	0.4	4.0	10.5	29.6	28.2	17.7	8.3	1.4	-
Kenosha	2,077	0.2	4.3	7.8	24.2	29.4	23.1	9.6	1.3	0.0
Kewaunee	220	-	2.3	3.2	15.0	40.0	29.5	8.6	1.4	-
La Crosse	1,267	0.2	2.6	6.3	20.7	31.5	25.5	12.4	0.9	-
Lafayette	175	-	1.1	4.6	20.0	40.0	21.7	10.3	2.3	-
Langlade	199	-	5.0	8.5	25.1	30.2	18.1	9.5	3.5	-
Lincoln	304	0.3	2.3	8.9	26.0	32.9	21.7	7.6	-	0.3
Manitowoc	922	0.1	2.8	7.3	23.1	29.9	25.6	10.0	1.2	-
Marathon	1,476	-	2.1	6.0	21.2	33.1	26.2	9.5	1.8	0.1
Marinette	445	-	3.1	6.1	25.2	31.7	21.6	10.6	1.8	-
Marquette	126	-	-	7.1	30.2	33.3	17.5	10.3	1.6	-
Menominee	89	-	9.0	13.5	31.5	20.2	18.0	5.6	2.2	-
Milwaukee	14,733	0.4	6.1	10.1	25.7	25.3	20.9	9.9	1.5	0.1
Monroe	549	-	4.4	7.1	26.0	31.5	18.8	9.7	2.4	0.2

(Continued)

Table 6b. Percent of Births by Age of Mother and County of Residence, Wisconsin 1998

County	Total	<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+
Oconto	367	-	2.7	6.8	21.8	28.6	27.8	9.3	3.0	-
Oneida	332	-	2.1	7.2	22.0	27.7	27.7	10.8	2.4	-
Outagamie	2,172	0.1	2.3	4.2	19.1	31.4	31.7	9.9	1.2	0.1
Ozaukee	967	-	0.8	2.5	12.2	24.7	35.6	20.1	3.6	0.5
Pepin	81	-	2.5	3.7	18.5	33.3	28.4	7.4	6.2	-
Pierce	434	-	1.6	4.6	24.4	35.3	24.4	7.8	1.8	-
Polk	425	-	2.8	6.1	25.4	36.5	19.5	8.2	1.4	-
Portage	741	-	4.3	5.8	20.2	34.4	25.1	8.1	1.5	0.4
Price	157	-	-	8.3	27.4	28.7	26.8	7.0	1.9	-
Racine	2,633	0.4	5.2	8.3	22.8	28.1	24.0	9.3	2.0	-
Richland	199	-	1.5	7.5	28.1	32.2	16.6	10.6	3.5	-
Rock	2,040	0.3	4.6	7.5	25.5	30.6	22.0	8.5	0.9	0.1
Rusk	158	0.6	1.9	5.7	32.9	31.6	17.1	7.6	2.5	-
St. Croix	777	-	1.5	3.9	16.2	34.0	30.1	13.5	0.6	-
Sauk	711	0.1	2.7	6.5	21.5	35.3	21.8	10.1	1.7	0.3
Sawyer	154	-	5.8	9.1	30.5	24.0	22.1	6.5	1.9	-
Shawano	467	-	2.6	6.6	23.8	33.0	23.3	9.0	1.7	-
Sheboygan	1,323	-	3.7	6.7	20.2	30.4	26.1	11.3	1.6	-
Taylor	225	-	3.1	5.3	26.2	36.0	20.9	7.6	0.9	-
Trempealeau	337	-	1.5	6.8	21.1	34.4	22.8	11.6	1.8	-
Vernon	344	0.3	2.9	4.1	22.7	27.6	25.3	12.2	4.7	0.3
Vilas	175	-	1.7	5.7	28.0	32.0	21.7	9.1	1.7	-
Walworth	1,067	-	4.1	6.1	22.6	30.0	23.3	12.0	1.9	-
Washburn	148	0.7	2.0	6.1	25.7	34.5	19.6	8.1	3.4	-
Washington	1,469	0.2	1.8	3.9	14.3	30.8	32.6	14.0	2.3	0.1
Waukesha	4,124	0.0	1.3	3.7	11.0	27.4	37.2	16.9	2.3	0.1
Waupaca	596	-	3.4	8.1	24.0	34.1	21.8	8.2	0.5	-
Waushara	240	-	4.2	7.9	27.1	32.1	15.8	9.2	3.8	-
Winnebago	1,725	0.1	2.5	5.6	20.8	31.9	27.4	10.0	1.5	0.2
Wood	902	-	2.5	6.2	23.5	33.7	22.1	10.3	1.7	-

Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Notes: Included in the totals are 5 births for which age of mother was not reported. A dash (-) indicates that there were no events in that category.

Table 7a. Number of Births by Age of Mother and Region, Wisconsin 1998

	Total	<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+
Total	67,379	111	2,366	4,570	14,632	19,932	17,126	7,385	1,191	61
DHFS Regions										
Southern	11,638	12	323	643	2,331	3,555	3,120	1,418	226	10
Southeastern	27,962	80	1,288	2,219	6,118	7,507	7,013	3,209	503	22
Northeastern	13,910	9	376	841	2,892	4,374	3,750	1,422	232	14
Western	8,693	9	239	525	2,091	2,833	2,003	843	141	8
Northern	5,176	1	140	342	1,200	1,663	1,240	493	89	7
Perinatal Regions										
South Central	13,391	12	387	753	2,726	4,109	3,539	1,600	253	12
South East	27,326	80	1,266	2,184	5,931	7,301	6,896	3,152	493	20
Fox Valley	6,708	5	159	382	1,393	2,159	1,845	653	103	9
North East	5,879	4	168	370	1,232	1,813	1,560	619	108	5
Western	7,398	6	199	449	1,726	2,409	1,745	748	110	5
North Central	5,332	2	147	338	1,246	1,742	1,267	482	97	10
Northwest	1,345	2	40	94	378	399	274	131	27	-

Table 7b. Percent of Births by Age of Mother and Region, Wisconsin 1998

	Total	<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+
Total	67,379	0.2%	3.5%	6.8%	21.7%	29.6%	25.4%	11.0%	1.8%	0.1%
DHFS Regions										
Southern	11,638	0.1	2.8	5.5	20.0	30.5	26.8	12.2	1.9	0.1
Southeastern	27,962	0.3	4.6	7.9	21.9	26.8	25.1	11.5	1.8	0.1
Northeastern	13,910	0.1	2.7	6.0	20.8	31.4	27.0	10.2	1.7	0.1
Western	8,693	0.1	2.7	6.0	24.1	32.6	23.0	9.7	1.6	0.1
Northern	5,176	0.0	2.7	6.6	23.2	32.1	24.0	9.5	1.7	0.1
Perinatal Regions										
South Central	13,391	0.1	2.9	5.6	20.4	30.7	26.4	11.9	1.9	0.1
South East	27,326	0.3	4.6	8.0	21.7	26.7	25.2	11.5	1.8	0.1
Fox Valley	6,708	0.1	2.4	5.7	20.8	32.2	27.5	9.7	1.5	0.1
North East	5,879	0.1	2.9	6.3	21.0	30.8	26.5	10.5	1.8	0.1
Western	7,398	0.1	2.7	6.1	23.3	32.6	23.6	10.1	1.5	0.1
North Central	5,332	0.0	2.8	6.3	23.4	32.7	23.8	9.0	1.8	0.2
Northwest	1,345	0.1	3.0	7.0	28.1	29.7	20.4	9.7	2.0	-

Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Notes: Included in the totals are 5 births for which age of mother was not reported. A dash (-) indicates that there were no births in that category. Percents may not add to 100 due to rounding. For maps of the Department of Health and Family Services (DHFS) and Perinatal Regions, see Technical Notes (pages 95 and 96).

Table 8a. Number of Births by Race/Ethnicity of Mother and County of Residence, Wisconsin 1998

County	Total	White	Black	Amer. Indian	Hispanic	Laotian/ Hmong	Other
Total	67,379	54,598	6,480	829	3,633	1,037	795
Adams	167	162	3	-	2	-	-
Ashland	208	180	-	24	4	-	-
Barron	475	468	-	4	2	-	1
Bayfield	139	118	-	19	-	-	2
Brown	3,130	2,706	34	121	136	110	23
Buffalo	143	143	-	-	-	-	-
Burnett	149	132	2	13	-	-	2
Calumet	480	463	-	2	3	7	5
Chippewa	633	615	-	3	6	5	4
Clark	537	529	1	4	3	-	-
Columbia	620	598	-	4	15	-	3
Crawford	206	205	-	1	-	-	-
Dane	5,125	4,256	361	40	227	73	168
Dodge	944	890	5	4	41	1	3
Door	239	230	-	1	5	1	2
Douglas	509	489	1	12	4	1	2
Dunn	471	444	-	3	3	18	3
Eau Claire	1,058	991	5	5	10	38	9
Florence	33	32	-	1	-	-	-
Fond du Lac	1,141	1,079	22	3	21	10	6
Forest	93	71	1	18	3	-	-
Grant	505	498	1	-	3	1	2
Green	379	373	-	-	5	-	1
Green Lake	228	209	-	2	11	4	2
Iowa	290	285	1	-	3	-	1
Iron	38	38	-	-	-	-	-
Jackson	198	171	1	23	2	-	1
Jefferson	892	829	2	3	56	1	1
Juneau	277	257	2	7	7	2	1
Kenosha	2,077	1,662	167	7	217	2	21
Kewaunee	220	217	-	2	-	-	1
La Crosse	1,267	1,123	20	9	15	86	14
Lafayette	175	175	-	-	-	-	-
Langlade	199	190	-	3	4	-	2
Lincoln	304	300	-	2	1	-	1
Manitowoc	922	857	1	4	21	35	4
Marathon	1,476	1,351	2	11	19	86	7
Marinette	445	440	-	2	2	-	-
Marquette	126	115	-	2	7	-	2
Menominee	89	3	-	81	5	-	-
Milwaukee	14,733	7,077	5,230	130	1,754	280	259
Monroe	549	528	1	9	6	-	5

(Continued)

Table 8a. Number of Births by Race/Ethnicity of Mother and County of Residence, Wisconsin 1998

County	Total	White	Black	Amer. Indian	Hispanic	Laotian/ Hmong	Other
Oconto	367	361	-	5	1	-	-
Oneida	332	318	1	3	4	-	6
Outagamie	2,172	1,994	5	30	47	84	12
Ozaukee	967	946	4	2	10	1	4
Pepin	81	81	-	-	-	-	-
Pierce	434	429	-	3	1	-	1
Polk	425	408	1	5	10	-	1
Portage	741	677	3	3	20	32	6
Price	157	149	-	2	3	-	3
Racine	2,633	1,879	406	7	317	2	22
Richland	199	198	-	1	-	-	-
Rock	2,040	1,779	148	8	76	3	26
Rusk	158	151	-	4	1	1	1
St. Croix	777	763	2	-	4	2	6
Sauk	711	672	1	17	17	1	3
Sawyer	154	108	-	44	2	-	-
Shawano	467	420	-	36	10	1	-
Sheboygan	1,323	1,164	2	4	54	84	15
Taylor	225	221	-	-	4	-	-
Trempealeau	337	332	-	-	4	-	1
Vernon	344	341	-	1	1	-	1
Vilas	175	137	-	37	-	-	1
Walworth	1,067	918	7	3	121	1	17
Washburn	148	144	-	1	2	-	1
Washington	1,469	1,424	3	6	22	1	13
Waukesha	4,124	3,842	27	9	166	4	75
Waupaca	596	575	3	2	13	-	3
Waushara	240	208	-	1	31	-	-
Winnebago	1,725	1,610	4	9	52	41	9
Wood	902	850	-	7	17	18	10

Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Notes: See Technical Notes for full definitions of race/ethnicity categories. Included in the totals are 7 births for which race/ethnicity of mother was not reported. A dash (-) indicates that there were no births in that category.

Table 8b. Percent of Births by Race/Ethnicity of Mother and County of Residence, Wisconsin 1998

County	Total	White	Black	Amer. Indian	Hispanic	Laotian/ Hmong	Other
Total	67,379	81.0%	9.6%	1.2%	5.4%	1.5%	1.2%
Adams	167	97.0	1.8	-	1.2	-	-
Ashland	208	86.5	-	11.5	1.9	-	-
Barron	475	98.5	-	0.8	0.4	-	0.2
Bayfield	139	84.9	-	13.7	-	-	1.4
Brown	3,130	86.5	1.1	3.9	4.3	3.5	0.7
Buffalo	143	100.0	-	-	-	-	-
Burnett	149	88.6	1.3	8.7	-	-	1.3
Calumet	480	96.5	-	0.4	0.6	1.5	1.0
Chippewa	633	97.2	-	0.5	0.9	0.8	0.6
Clark	537	98.5	0.2	0.7	0.6	-	-
Columbia	620	96.5	-	0.6	2.4	-	0.5
Crawford	206	99.5	-	0.5	-	-	-
Dane	5,125	83.0	7.0	0.8	4.4	1.4	3.3
Dodge	944	94.3	0.5	0.4	4.3	0.1	0.3
Door	239	96.2	-	0.4	2.1	0.4	0.8
Douglas	509	96.1	0.2	2.4	0.8	0.2	0.4
Dunn	471	94.3	-	0.6	0.6	3.8	0.6
Eau Claire	1,058	93.7	0.5	0.5	0.9	3.6	0.9
Florence	33	97.0	-	3.0	-	-	-
Fond du Lac	1,141	94.6	1.9	0.3	1.8	0.9	0.5
Forest	93	76.3	1.1	19.4	3.2	-	-
Grant	505	98.6	0.2	-	0.6	0.2	0.4
Green	379	98.4	-	-	1.3	-	0.3
Green Lake	228	91.7	-	0.9	4.8	1.8	0.9
Iowa	290	98.3	0.3	-	1.0	-	0.3
Iron	38	100.0	-	-	-	-	-
Jackson	198	86.4	0.5	11.6	1.0	-	0.5
Jefferson	892	92.9	0.2	0.3	6.3	0.1	0.1
Juneau	277	92.8	0.7	2.5	2.5	0.7	0.4
Kenosha	2,077	80.0	8.0	0.3	10.4	0.1	1.0
Kewaunee	220	98.6	-	0.9	-	-	0.5
La Crosse	1,267	88.6	1.6	0.7	1.2	6.8	1.1
Lafayette	175	100.0	-	-	-	-	-
Langlade	199	95.5	-	1.5	2.0	-	1.0
Lincoln	304	98.7	-	0.7	0.3	-	0.3
Manitowoc	922	93.0	0.1	0.4	2.3	3.8	0.4
Marathon	1,476	91.5	0.1	0.7	1.3	5.8	0.5
Marinette	445	98.9	-	0.4	0.4	-	-
Marquette	126	91.3	-	1.6	5.6	-	1.6
Menominee	89	3.4	-	91.0	5.6	-	-
Milwaukee	14,733	48.0	35.5	0.9	11.9	1.9	1.8
Monroe	549	96.2	0.2	1.6	1.1	-	0.9

(Continued)

Table 8b. Percent of Births by Race/Ethnicity of Mother and County of Residence, Wisconsin 1998

County	Total	White	Black	Amer. Indian	Hispanic	Laotian/ Hmong	Other
Oconto	367	98.4	-	1.4	0.3	-	-
Oneida	332	95.8	0.3	0.9	1.2	-	1.8
Outagamie	2,172	91.8	0.2	1.4	2.2	3.9	0.6
Ozaukee	967	97.8	0.4	0.2	1.0	0.1	0.4
Pepin	81	100.0	-	-	-	-	-
Pierce	434	98.8	-	0.7	0.2	-	0.2
Polk	425	96.0	0.2	1.2	2.4	-	0.2
Portage	741	91.4	0.4	0.4	2.7	4.3	0.8
Price	157	94.9	-	1.3	1.9	-	1.9
Racine	2,633	71.4	15.4	0.3	12.0	0.1	0.8
Richland	199	99.5	-	0.5	-	-	-
Rock	2,040	87.2	7.3	0.4	3.7	0.1	1.3
Rusk	158	95.6	-	2.5	0.6	0.6	0.6
St. Croix	777	98.2	0.3	-	0.5	0.3	0.8
Sauk	711	94.5	0.1	2.4	2.4	0.1	0.4
Sawyer	154	70.1	-	28.6	1.3	-	-
Shawano	467	89.9	-	7.7	2.1	0.2	-
Sheboygan	1,323	88.0	0.2	0.3	4.1	6.3	1.1
Taylor	225	98.2	-	-	1.8	-	-
Trempealeau	337	98.5	-	-	1.2	-	0.3
Vernon	344	99.1	-	0.3	0.3	-	0.3
Vilas	175	78.3	-	21.1	-	-	0.6
Walworth	1,067	86.0	0.7	0.3	11.3	0.1	1.6
Washburn	148	97.3	-	0.7	1.4	-	0.7
Washington	1,469	96.9	0.2	0.4	1.5	0.1	0.9
Waukesha	4,124	93.2	0.7	0.2	4.0	0.1	1.8
Waupaca	596	96.5	0.5	0.3	2.2	-	0.5
Waushara	240	86.7	-	0.4	12.9	-	-
Winnebago	1,725	93.3	0.2	0.5	3.0	2.4	0.5
Wood	902	94.2	-	0.8	1.9	2.0	1.1

Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Notes: See Technical Notes for full definitions of race/ethnicity categories. Included in the totals are 7 births for which race/ethnicity of mother was not reported. A dash (-) indicates that there were no births in that category.

Table 9a. Number of Births by Race/Ethnicity of Mother and Region, Wisconsin 1998

	Total	White	Black	Amer. Indian	Hispanic	Laotian/ Hmong	Other
Total	67,379	54,598	6,480	829	3,633	1,037	795
DHFS Regions							
Southern	11,638	10,348	522	82	396	81	208
Southeastern	27,962	18,577	5,846	167	2,663	292	412
Northeastern	13,910	12,651	71	307	419	377	84
Western	8,693	8,282	34	99	74	151	53
Northern	5,176	4,740	7	174	81	136	38
Perinatal Regions							
South Central	13,391	11,890	531	87	573	114	195
South East	27,326	17,994	5,839	165	2,540	417	366
Fox Valley	6,708	6,253	34	51	185	149	36
North East	5,879	5,234	35	252	180	148	29
Western	7,398	7,042	30	66	64	154	42
North Central	5,332	4,976	8	95	79	140	34
Northwest	1,345	1,209	3	113	12	1	7

Table 9b. Percent of Births by Race/Ethnicity of Mother and Region, Wisconsin 1998

	Total	White	Black	Amer. Indian	Hispanic	Laotian/ Hmong	Other
Total	67,379	81.0%	9.6%	1.2%	5.4%	1.5%	1.2%
DHFS Regions							
Southern	11,638	88.9	4.5	0.7	3.4	0.7	1.8
Southeastern	27,962	66.4	20.9	0.6	9.5	1.0	1.5
Northeastern	13,910	90.9	0.5	2.2	3.0	2.7	0.6
Western	8,693	95.3	0.4	1.1	0.9	1.7	0.6
Northern	5,176	91.6	0.1	3.4	1.6	2.6	0.7
Perinatal Regions							
South Central	13,391	88.8	4.0	0.6	4.3	0.9	1.5
South East	27,326	65.8	21.4	0.6	9.3	1.5	1.3
Fox Valley	6,708	93.2	0.5	0.8	2.8	2.2	0.5
North East	5,879	89.0	0.6	4.3	3.1	2.5	0.5
Western	7,398	95.2	0.4	0.9	0.9	2.1	0.6
North Central	5,332	93.3	0.2	1.8	1.5	2.6	0.6
Northwest	1,345	89.9	0.2	8.4	0.9	0.1	0.5

Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Notes: See Technical Notes for full definitions of race/ethnicity categories. Included in the totals are 7 births for which race/ethnicity of mother was not reported. Percents may not add to 100 due to rounding. For maps of the Department of Health and Family Services (DHFS) and Perinatal Regions, see Technical Notes (pages 95 and 96).

Table 10a. Number of Births by Education of Mother and County of Residence, Wisconsin 1998

County	Total	Elementary or Less	Some High School	High School Graduate	Some College	College Graduate	Post Graduate
Total	67,379	1,961	8,641	21,988	16,461	11,196	7,043
Adams	167	3	31	64	48	13	8
Ashland	208	2	21	89	54	28	14
Barron	475	14	48	197	124	56	36
Bayfield	139	-	14	54	39	17	15
Brown	3,130	131	373	937	787	613	288
Buffalo	143	2	5	57	56	17	5
Burnett	149	1	19	71	36	10	11
Calumet	480	1	31	153	126	108	60
Chippewa	633	8	53	255	195	85	37
Clark	537	120	40	179	115	47	36
Columbia	620	19	64	192	183	92	70
Crawford	206	2	17	87	68	23	9
Dane	5,125	90	371	1,104	1,223	1,244	1,084
Dodge	944	5	99	399	248	126	67
Door	239	-	18	93	57	46	25
Douglas	509	1	58	171	174	56	45
Dunn	471	12	23	165	135	89	44
Eau Claire	1,058	43	78	292	300	208	134
Florence	33	-	3	11	11	5	3
Fond du Lac	1,141	10	137	441	281	160	109
Forest	93	-	24	40	20	5	4
Grant	505	12	40	167	174	71	40
Green	379	-	43	122	125	49	39
Green Lake	228	25	22	82	57	27	15
Iowa	290	2	17	95	90	54	32
Iron	38	-	4	11	16	4	3
Jackson	198	4	23	92	43	19	17
Jefferson	892	12	90	333	243	131	83
Juneau	277	6	50	120	62	17	21
Kenosha	2,077	57	319	787	472	284	156
Kewaunee	220	-	11	90	75	36	8
La Crosse	1,267	40	90	357	372	241	166
Lafayette	175	1	9	63	64	28	10
Langlade	199	2	31	88	47	16	15
Lincoln	304	2	37	124	84	32	25
Manitowoc	922	28	101	354	251	134	53
Marathon	1,476	58	107	544	397	229	141
Marinette	445	4	45	210	113	42	31
Marquette	126	7	17	54	26	13	9
Menominee	89	2	23	42	18	3	1
Milwaukee	14,733	616	3,484	4,485	2,899	2,002	1,234
Monroe	549	83	67	192	128	48	30

(Continued)

Table 10a. Number of Births by Education of Mother and County of Residence, Wisconsin 1998

County	Total	Elementary or Less	Some High School	High School Graduate	Some College	College Graduate	Post Graduate
Oconto	367	7	35	164	95	46	20
Oneida	332	-	38	142	86	34	32
Outagamie	2,172	49	158	769	563	400	229
Ozaukee	967	3	30	197	247	327	163
Pepin	81	10	3	28	21	14	5
Pierce	434	-	19	183	100	74	57
Polk	425	3	32	182	129	39	38
Portage	741	15	74	251	185	117	96
Price	157	-	15	63	49	21	9
Racine	2,633	76	458	881	623	387	206
Richland	199	10	26	81	44	21	17
Rock	2,040	45	335	754	511	218	170
Rusk	158	2	18	71	43	17	7
St. Croix	777	-	46	241	198	193	98
Sauk	711	27	97	264	184	72	66
Sawyer	154	3	22	75	31	13	10
Shawano	467	12	49	194	127	53	32
Sheboygan	1,323	37	152	496	302	198	135
Taylor	225	15	22	86	65	25	12
Trempealeau	337	7	21	124	110	43	31
Vernon	344	76	23	95	80	40	29
Vilas	175	2	18	73	50	17	14
Walworth	1,067	39	137	362	262	181	85
Washburn	148	2	17	62	41	14	12
Washington	1,469	3	97	460	405	354	149
Waukesha	4,124	29	189	948	991	1,259	705
Waupaca	596	4	77	257	138	68	51
Waushara	240	29	34	87	56	18	15
Winnebago	1,725	21	151	608	420	294	225
Wood	902	10	91	327	269	111	92

Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Notes: "Some High School" or "Some College" means the mother completed at least one year of schooling at that level. Included in the totals are 89 births for which education of mother was not reported. A dash (-) indicates that there were no births in that category.

Table 10b. Percent of Births by Education of Mother and County of Residence, Wisconsin 1998

County	Total	Elementary or Less	Some High School	High School Graduate	Some College	College Graduate	Post Graduate
Total	67,379	2.9%	12.8%	32.6%	24.4%	16.6%	10.5%
Adams	167	1.8	18.6	38.3	28.7	7.8	4.8
Ashland	208	1.0	10.1	42.8	26.0	13.5	6.7
Barron	475	2.9	10.1	41.5	26.1	11.8	7.6
Bayfield	139	-	10.1	38.8	28.1	12.2	10.8
Brown	3,130	4.2	11.9	29.9	25.1	19.6	9.2
Buffalo	143	1.4	3.5	39.9	39.2	11.9	3.5
Burnett	149	0.7	12.8	47.7	24.2	6.7	7.4
Calumet	480	0.2	6.5	31.9	26.3	22.5	12.5
Chippewa	633	1.3	8.4	40.3	30.8	13.4	5.8
Clark	537	22.3	7.4	33.3	21.4	8.8	6.7
Columbia	620	3.1	10.3	31.0	29.5	14.8	11.3
Crawford	206	1.0	8.3	42.2	33.0	11.2	4.4
Dane	5,125	1.8	7.2	21.5	23.9	24.3	21.2
Dodge	944	0.5	10.5	42.3	26.3	13.3	7.1
Door	239	-	7.5	38.9	23.8	19.2	10.5
Douglas	509	0.2	11.4	33.6	34.2	11.0	8.8
Dunn	471	2.5	4.9	35.0	28.7	18.9	9.3
Eau Claire	1,058	4.1	7.4	27.6	28.4	19.7	12.7
Florence	33	-	9.1	33.3	33.3	15.2	9.1
Fond du Lac	1,141	0.9	12.0	38.7	24.6	14.0	9.6
Forest	93	-	25.8	43.0	21.5	5.4	4.3
Grant	505	2.4	7.9	33.1	34.5	14.1	7.9
Green	379	-	11.3	32.2	33.0	12.9	10.3
Green Lake	228	11.0	9.6	36.0	25.0	11.8	6.6
Iowa	290	0.7	5.9	32.8	31.0	18.6	11.0
Iron	38	-	10.5	28.9	42.1	10.5	7.9
Jackson	198	2.0	11.6	46.5	21.7	9.6	8.6
Jefferson	892	1.3	10.1	37.3	27.2	14.7	9.3
Juneau	277	2.2	18.1	43.3	22.4	6.1	7.6
Kenosha	2,077	2.7	15.4	37.9	22.7	13.7	7.5
Kewaunee	220	-	5.0	40.9	34.1	16.4	3.6
La Crosse	1,267	3.2	7.1	28.2	29.4	19.0	13.1
Lafayette	175	0.6	5.1	36.0	36.6	16.0	5.7
Langlade	199	1.0	15.6	44.2	23.6	8.0	7.5
Lincoln	304	0.7	12.2	40.8	27.6	10.5	8.2
Manitowoc	922	3.0	11.0	38.4	27.2	14.5	5.7
Marathon	1,476	3.9	7.2	36.9	26.9	15.5	9.6
Marinette	445	0.9	10.1	47.2	25.4	9.4	7.0
Marquette	126	5.6	13.5	42.9	20.6	10.3	7.1
Menominee	89	2.2	25.8	47.2	20.2	3.4	1.1
Milwaukee	14,733	4.2	23.6	30.4	19.7	13.6	8.4
Monroe	549	15.1	12.2	35.0	23.3	8.7	5.5

(Continued)

Table 10b. Percent of Births by Education of Mother and County of Residence, Wisconsin 1998

County	Total	Elementary or Less	Some High School	High School Graduate	Some College	College Graduate	Post Graduate
Oconto	367	1.9	9.5	44.7	25.9	12.5	5.4
Oneida	332	-	11.4	42.8	25.9	10.2	9.6
Outagamie	2,172	2.3	7.3	35.4	25.9	18.4	10.5
Ozaukee	967	0.3	3.1	20.4	25.5	33.8	16.9
Pepin	81	12.3	3.7	34.6	25.9	17.3	6.2
Pierce	434	-	4.4	42.2	23.0	17.1	13.1
Polk	425	0.7	7.5	42.8	30.4	9.2	8.9
Portage	741	2.0	10.0	33.9	25.0	15.8	13.0
Price	157	-	9.6	40.1	31.2	13.4	5.7
Racine	2,633	2.9	17.4	33.5	23.7	14.7	7.8
Richland	199	5.0	13.1	40.7	22.1	10.6	8.5
Rock	2,040	2.2	16.4	37.0	25.0	10.7	8.3
Rusk	158	1.3	11.4	44.9	27.2	10.8	4.4
St. Croix	777	-	5.9	31.0	25.5	24.8	12.6
Sauk	711	3.8	13.6	37.1	25.9	10.1	9.3
Sawyer	154	1.9	14.3	48.7	20.1	8.4	6.5
Shawano	467	2.6	10.5	41.5	27.2	11.3	6.9
Sheboygan	1,323	2.8	11.5	37.5	22.8	15.0	10.2
Taylor	225	6.7	9.8	38.2	28.9	11.1	5.3
Trempealeau	337	2.1	6.2	36.8	32.6	12.8	9.2
Vernon	344	22.1	6.7	27.6	23.3	11.6	8.4
Vilas	175	1.1	10.3	41.7	28.6	9.7	8.0
Walworth	1,067	3.7	12.8	33.9	24.6	17.0	8.0
Washburn	148	1.4	11.5	41.9	27.7	9.5	8.1
Washington	1,469	0.2	6.6	31.3	27.6	24.1	10.1
Waukesha	4,124	0.7	4.6	23.0	24.0	30.5	17.1
Waupaca	596	0.7	12.9	43.1	23.2	11.4	8.6
Waushara	240	12.1	14.2	36.3	23.3	7.5	6.3
Winnebago	1,725	1.2	8.8	35.2	24.3	17.0	13.0
Wood	902	1.1	10.1	36.3	29.8	12.3	10.2

Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Notes: "Some High School" or "Some College" means the mother completed at least one year of schooling at that level. Included in the totals are 89 births for which education of mother was not reported. A dash (-) indicates that there were no births in that category.

Table 11a. Number of Births by Education of Mother and Region, Wisconsin 1998

	Total	Elementary or Less	Some High School	High School Graduate	Some College	College Graduate	Post Graduate
Total	67,379	1,961	8,641	21,988	16,461	11,196	7,043
DHFS Regions							
Southern	11,638	222	1,199	3,512	3,024	2,028	1,633
Southeastern	27,962	835	4,804	8,453	6,142	4,925	2,781
Northeastern	13,910	367	1,434	5,031	3,492	2,259	1,306
Western	8,693	428	683	3,014	2,400	1,310	838
Northern	5,176	109	521	1,978	1,403	674	485
Perinatal Regions							
South Central	13,391	271	1,409	4,120	3,461	2,317	1,792
Southeast	27,326	821	4,729	8,254	5,939	4,811	2,748
Fox Valley	6,708	146	627	2,451	1,667	1,088	713
Northeast	5,879	184	655	2,084	1,523	973	458
Western	7,398	304	548	2,547	2,059	1,189	736
North Central	5,332	226	518	1,999	1,421	676	486
Northwest	1,345	9	155	533	391	142	110

Table 11b. Percent of Births by Education of Mother and Region, Wisconsin 1998

	Total	Elementary or Less	Some High School	High School Graduate	Some College	College Graduate	Post Graduate
Total	67,379	2.9%	12.8%	32.6%	24.4%	16.6%	10.5%
DHFS Regions							
Southern	11,638	1.9	10.3	30.2	26.0	17.4	14.0
Southeastern	27,962	3.0	17.2	30.2	22.0	17.6	9.9
Northeastern	13,910	2.6	10.3	36.2	25.1	16.2	9.4
Western	8,693	4.9	7.9	34.7	27.6	15.1	9.6
Northern	5,176	2.1	10.1	38.2	27.1	13.0	9.4
Perinatal Regions							
South Central	13,391	2.0	10.5	30.8	25.8	17.3	13.4
Southeast	27,326	3.0	17.3	30.2	21.7	17.6	10.1
Fox Valley	6,708	2.2	9.3	36.5	24.9	16.2	10.6
Northeast	5,879	3.1	11.1	35.4	25.9	16.6	7.8
Western	7,398	4.1	7.4	34.4	27.8	16.1	10.0
North Central	5,332	4.2	9.7	37.5	26.7	12.7	9.1
Northwest	1,345	0.7	11.5	39.6	29.1	10.6	8.2

Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Notes: "Some High School" or "Some College" means the mother completed at least one year of schooling at that level. Included in the totals are 89 births for which education of mother was not reported. For maps of the Department of Health and Family Services (DHFS) and Perinatal Regions, see Technical Notes (pages 95 and 96).

Table 12a. Number of Births to Unmarried Mothers by Age and County of Residence, Wisconsin 1998

County	Total	<15	15-17	18-19	20-24	25-29	30-34	35-39	40+
Total	19,599	108	2,164	3,698	7,331	3,512	1,771	833	180
Adams	53	-	9	12	16	6	4	6	-
Ashland	46	-	n/s	10	10	8	6	6	2
Barron	134	-	16	30	52	20	9	6	1
Bayfield	34	-	n/s	6	10	9	6	2	-
Brown	830	n/s	80	133	332	165	74	32	12
Buffalo	31	-	n/s	4	16	3	5	1	-
Burnett	49	n/s	n/s	7	24	9	4	-	n/s
Calumet	74	n/s	8	26	24	8	4	3	1
Chippewa	175	n/s	21	39	69	30	13	2	-
Clark	91	-	16	20	30	15	7	3	-
Columbia	140	-	17	29	53	26	9	4	2
Crawford	55	-	7	12	24	10	2	-	-
Dane	1,103	n/s	102	177	383	233	133	55	16
Dodge	214	-	20	40	78	39	24	12	1
Door	53	-	n/s	13	20	8	3	7	-
Douglas	173	-	19	32	71	31	13	6	1
Dunn	117	-	10	29	47	23	5	3	-
Eau Claire	258	n/s	24	35	100	59	24	12	3
Florence	2	-	-	-	1	-	-	-	n/s
Fond du Lac	292	-	21	59	111	67	26	8	-
Forest	41	-	6	12	14	5	1	3	-
Grant	122	-	17	31	43	15	12	2	2
Green	87	-	7	13	41	14	10	1	1
Green Lake	55	-	4	11	19	9	8	4	-
Iowa	59	-	n/s	5	25	16	8	2	n/s
Iron	3	-	-	-	1	2	-	-	-
Jackson	67	n/s	6	13	25	12	7	3	-
Jefferson	197	-	23	42	68	38	16	5	5
Juneau	87	n/s	8	19	32	19	6	2	-
Kenosha	670	5	83	134	262	115	39	27	5
Kewaunee	28	-	5	5	10	5	3	-	-
La Crosse	312	n/s	26	67	124	53	20	19	1
Lafayette	33	-	n/s	6	14	5	5	1	-
Langlade	56	-	9	14	16	9	6	2	-
Lincoln	73	n/s	6	24	25	9	7	1	-
Manitowoc	242	-	25	53	94	34	23	10	3
Marathon	296	-	25	69	102	49	36	12	3
Marinette	94	-	9	18	32	17	10	6	2
Marquette	33	-	-	6	13	2	6	5	n/s
Menominee	65	-	7	10	25	11	8	4	-
Milwaukee	7,163	60	860	1,325	2,628	1,287	628	320	55
Monroe	140	-	19	25	61	22	10	1	2

(Continued)

Table 12a. Number of Births to Unmarried Mothers by Age and County of Residence, Wisconsin 1998

County	Total	<15	15-17	18-19	20-24	25-29	30-34	35-39	40+
Oconto	96	-	10	19	40	14	10	3	-
Oneida	89	-	7	18	34	12	12	5	1
Outagamie	409	n/s	38	66	169	69	32	29	4
Ozaukee	111	-	6	22	47	13	10	9	4
Pepin	13	-	2	1	6	2	2	-	-
Pierce	98	-	7	16	41	22	11	1	-
Polk	118	-	11	21	37	27	15	7	-
Portage	161	-	31	26	50	33	10	7	3
Price	35	-	-	9	16	3	5	1	n/s
Racine	972	11	125	186	367	158	86	28	11
Richland	57	-	-	11	27	13	1	2	-
Rock	691	6	90	126	264	119	62	20	4
Rusk	37	n/s	n/s	6	16	8	2	1	-
St. Croix	107	-	9	21	34	23	13	7	-
Sauk	157	n/s	16	29	55	26	24	4	2
Sawyer	69	-	9	11	25	11	10	2	n/s
Shawano	126	-	10	24	45	24	14	7	2
Sheboygan	289	n/s	41	57	116	43	18	13	1
Taylor	43	-	6	8	17	9	2	1	-
Trempealeau	91	-	5	18	32	27	4	4	-
Vernon	77	n/s	9	11	29	11	10	3	3
Vilas	67	-	n/s	9	26	15	10	4	-
Walworth	255	-	37	44	104	38	15	12	5
Washburn	40	n/s	n/s	8	15	12	1	1	-
Washington	229	n/s	25	48	87	28	26	10	2
Waukesha	535	n/s	50	119	189	84	54	30	7
Waupaca	145	-	16	34	52	31	9	n/s	-
Waushara	52	n/s	7	13	17	7	3	4	1
Winnebago	386	n/s	35	68	147	80	41	8	5
Wood	197	-	20	34	82	33	19	9	-

Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Notes: Included in the totals are 2 births for which age of mother was not reported.

A dash (-) indicates that there were no births to unmarried women in this age group.

An n/s indicates that births to unmarried women are not shown, and at least one but fewer than five total births (to married and unmarried mothers) occurred in the age group (see Table 6a).

**Table 12b. Percent of Births to Unmarried Mothers by Age and County of Residence,
Wisconsin 1998**

County	Total	<15	15-17	18-19	20-24	25-29	30-34	35-39	40+
Total	19,599	0.6%	11.0%	18.9%	37.4%	17.9%	9.0%	4.3%	0.9%
Adams	53	-	17.0	22.6	30.2	11.3	7.5	11.3	-
Ashland	46	-	n/s	21.7	21.7	17.4	13.0	13.0	4.3
Barron	134	-	11.9	22.4	38.8	14.9	6.7	4.5	0.7
Bayfield	34	-	n/s	17.1	24.4	26.8	7.3	7.3	-
Brown	830	n/s	9.6	16.0	40.0	19.9	8.9	3.9	1.4
Buffalo	31	-	n/s	12.9	51.6	9.7	16.1	3.2	n/s
Burnett	49	n/s	n/s	14.3	49.0	18.4	8.2	-	n/s
Calumet	74	n/s	10.8	35.1	32.4	10.8	5.4	4.1	1.4
Chippewa	175	n/s	12.0	22.3	39.4	17.1	7.4	1.1	-
Clark	91	-	17.6	22.0	33.0	16.5	7.7	3.3	-
Columbia	140	-	12.1	20.7	37.9	18.6	6.4	2.9	1.4
Crawford	55	-	12.7	21.8	43.6	18.2	3.6	-	-
Dane	1,103	n/s	9.2	16.0	34.7	21.1	12.1	5.0	1.5
Dodge	214	-	9.3	18.7	36.4	18.2	11.2	5.6	0.5
Door	53	-	n/s	24.5	37.7	15.1	5.7	13.2	-
Douglas	173	-	11.0	18.5	41.0	17.9	7.5	3.5	0.6
Dunn	117	-	8.5	24.8	40.2	19.7	4.3	2.6	-
Eau Claire	258	n/s	9.3	13.6	38.8	22.9	9.3	4.7	1.2
Florence	2	-	-	-	50.0	-	-	-	n/s
Fond du Lac	292	-	7.2	20.2	38.0	22.9	8.9	2.7	-
Forest	41	-	14.6	29.3	34.1	12.2	2.4	7.3	-
Grant	122	-	13.9	25.4	35.2	12.3	9.8	1.6	1.6
Green	87	-	8.0	14.9	47.1	16.1	11.5	1.1	1.1
Green Lake	55	-	7.3	20.0	34.5	16.4	14.5	7.3	-
Iowa	59	-	n/s	8.5	42.4	27.1	13.6	3.4	n/s
Iron	3	-	-	-	33.3	66.7	-	-	-
Jackson	67	n/s	9.0	19.4	37.3	17.9	10.4	4.5	-
Jefferson	197	-	11.7	21.3	34.5	19.3	8.1	2.5	2.5
Juneau	87	n/s	9.2	21.8	36.8	21.8	6.9	2.3	-
Kenosha	670	0.7	12.4	20.0	39.1	17.2	5.8	4.0	0.7
Kewaunee	28	-	17.9	17.9	35.7	17.9	10.7	-	-
La Crosse	312	n/s	8.3	21.5	39.7	17.0	6.4	6.1	0.3
Lafayette	33	-	n/s	18.2	42.4	15.2	15.2	3.0	-
Langlade	56	-	16.1	25.0	28.6	16.1	10.7	3.6	-
Lincoln	73	n/s	8.2	32.9	34.2	12.3	9.6	1.4	-
Manitowoc	242	-	10.3	21.9	38.8	14.0	9.5	4.1	1.2
Marathon	296	-	8.4	23.3	34.5	16.6	12.2	4.1	1.0
Marinette	94	-	9.6	19.1	34.0	18.1	10.6	6.4	2.1
Marquette	33	-	-	18.2	39.4	6.1	18.2	15.2	n/s
Menominee	65	-	10.8	15.4	38.5	16.9	12.3	6.2	-
Milwaukee	7,163	0.8	12.0	18.5	36.7	18.0	8.8	4.5	0.8
Monroe	140	-	13.6	17.9	43.6	15.7	7.1	0.7	1.4

(Continued)

**Table 12b. Percent of Births to Unmarried Mothers by Age and County of Residence,
Wisconsin 1998**

County	Total	<15	15-17	18-19	20-24	25-29	30-34	35-39	40+
Oconto	96	-	10.4	19.8	41.7	14.6	10.4	3.1	-
Oneida	89	-	7.9	20.2	38.2	13.5	13.5	5.6	1.1
Outagamie	409	n/s	9.3	16.1	41.3	16.9	7.8	7.1	1.0
Ozaukee	111	-	5.4	19.8	42.3	11.7	9.0	8.1	3.6
Pepin	13	-	15.4	7.7	46.2	15.4	15.4	-	-
Pierce	98	-	7.1	16.3	41.8	22.4	11.2	1.0	-
Polk	118	-	9.3	17.8	31.4	22.9	12.7	5.9	-
Portage	161	-	19.3	16.1	31.1	20.5	6.2	4.3	1.9
Price	35	-	-	25.7	45.7	8.6	14.3	2.9	n/s
Racine	972	1.1	12.9	19.1	37.8	16.3	8.8	2.9	1.1
Richland	57	-	-	19.3	47.4	22.8	1.8	3.5	-
Rock	691	0.9	13.0	18.2	38.2	17.2	9.0	2.9	0.6
Rusk	37	n/s	n/s	16.2	43.2	21.6	5.4	2.7	-
St. Croix	107	-	8.4	19.6	31.8	21.5	12.1	6.5	-
Sauk	157	n/s	10.2	18.5	35.0	16.6	15.3	2.5	1.3
Sawyer	69	-	13.0	15.9	36.2	15.9	14.5	2.9	n/s
Shawano	126	-	7.9	19.0	35.7	19.0	11.1	5.6	1.6
Sheboygan	289	n/s	14.2	19.7	40.1	14.9	6.2	4.5	0.3
Taylor	43	-	14.0	18.6	39.5	20.9	4.7	2.3	-
Trempealeau	91	-	5.5	19.8	35.2	29.7	4.4	4.4	-
Vernon	77	n/s	11.7	14.3	37.7	14.3	13.0	3.9	3.9
Vilas	67	-	n/s	13.4	38.8	22.4	14.9	6.0	-
Walworth	255	-	14.5	17.3	40.8	14.9	5.9	4.7	2.0
Washburn	40	n/s	n/s	20.0	37.5	30.0	2.5	2.5	-
Washington	229	n/s	10.9	21.0	38.0	12.2	11.4	4.4	0.9
Waukesha	535	n/s	9.3	22.2	35.3	15.7	10.1	5.6	1.3
Waupaca	145	-	11.0	23.4	35.9	21.4	6.2	n/s	-
Waushara	52	n/s	13.5	25.0	32.7	13.5	5.8	7.7	1.9
Winnebago	386	n/s	9.1	17.6	38.1	20.7	10.6	2.1	1.3
Wood	197	-	10.2	17.3	41.6	16.8	9.6	4.6	-

Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Notes: Included in the totals are 2 births for which age of mother was not reported.

A dash (-) indicates that there were no births to unmarried women in this age group.

An n/s indicates that births to unmarried women are not shown, and at least one but fewer than five total births (to married and unmarried mothers) occurred in the age group (see Table 6a).

Table 13a. Births to Unmarried Mothers by Age and Region, Wisconsin 1998

	Total	<15	15-17	18-19	20-24	25-29	30-34	35-39	40+
Total	19,599	108	2,164	3,698	7,331	3,512	1,771	833	180
DHFS Regions									
Southern	2,858	12	300	510	1,055	541	300	111	29
Southeastern	10,132	80	1,209	1,920	3,752	1,761	874	441	94
Northeastern	3,269	6	318	615	1,266	594	292	146	32
Western	2,128	9	210	403	829	409	175	80	13
Northern	1,212	n/s	127	250	429	207	130	55	12
Perinatal Regions									
South Central	3,255	12	353	584	1,203	607	329	128	39
South East	9,969	80	1,190	1,891	3,696	1,728	861	437	85
Fox Valley	1,446	4	129	283	552	273	129	64	12
North East	1,534	n/s	148	275	598	278	145	69	19
Western	1,793	6	174	342	697	344	150	69	10
North Central	1,188	n/s	132	249	429	200	117	49	9
Northwest	414	n/s	38	74	156	82	40	17	5

Table 13b. Percent of Births to Unmarried Mothers by Age and Region, Wisconsin 1998

	Total	<15	15-17	18-19	20-24	25-29	30-34	35-39	40+
Total	19,599	0.6%	11.0%	18.9%	37.4%	17.9%	9.0%	4.3%	0.9%
DHFS Regions									
Southern	2,858	0.4	10.5	17.8	36.9	18.9	10.5	3.9	1.0
Southeastern	10,132	0.8	11.9	18.9	37.0	17.4	8.6	4.4	0.9
Northeastern	3,269	0.2	9.7	18.8	38.7	18.2	8.9	4.5	1.0
Western	2,128	0.4	9.9	18.9	39.0	19.2	8.2	3.8	0.6
Northern	1,212	n/s	10.5	20.6	35.4	17.1	10.7	4.5	1.0
Perinatal Regions									
South Central	3,255	0.4	10.8	17.9	37.0	18.6	10.1	3.9	1.2
South East	9,969	0.8	11.9	19.0	37.1	17.3	8.6	4.4	0.9
Fox Valley	1,446	0.3	8.9	19.6	38.2	18.9	8.9	4.4	0.8
North East	1,534	n/s	9.6	17.9	39.0	18.1	9.5	4.5	1.2
Western	1,793	0.3	9.7	19.1	38.9	19.2	8.4	3.8	0.6
North Central	1,188	n/s	11.1	21.0	36.1	16.8	9.8	4.1	0.8
Northwest	414	n/s	9.2	17.9	37.7	19.8	9.7	4.1	1.2

Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Notes: Included in the totals are 2 births for which education of mother was not reported. For maps of the Department of Health and Family Services (DHFS) and Perinatal Regions, see Technical Notes (pages 95 and 96). An n/s indicates that births to unmarried women are not shown, and at least one but fewer than five total births (to married and unmarried mothers) occurred in the age group (see Table 6a).

Table 14. Births by Trimester Prenatal Care Began and County of Residence, Wisconsin 1998

County	Total	Trimester Prenatal Care Began				Percent That Received First-Trimester Care		
		First	Second	Third	No Care	1998	1997	1996
Total	67,379	56,645	8,324	1,689	608	84.1%	84.4%	83.9%
Adams	167	130	30	5	2	77.8	80.9	69.0
Ashland	208	167	39	1	1	80.3	79.7	81.6
Barron	475	396	55	17	5	83.4	78.4	80.5
Bayfield	139	121	15	1	2	87.1	89.1	79.9
Brown	3,130	2,732	301	75	18	87.3	87.6	86.9
Buffalo	143	118	17	4	1	82.5	80.4	81.5
Burnett	149	108	35	2	-	72.5	73.7	77.6
Calumet	480	428	43	7	2	89.2	88.1	86.7
Chippewa	633	554	75	4	-	87.5	83.2	84.2
Clark	537	369	123	35	10	68.7	65.1	68.3
Columbia	620	528	73	13	4	85.2	83.6	84.9
Crawford	206	156	42	6	2	75.7	78.6	76.5
Dane	5,125	4,531	488	59	35	88.4	89.4	90.2
Dodge	944	832	92	19	1	88.1	89.4	87.0
Door	239	208	27	2	-	87.0	85.3	88.1
Douglas	509	444	49	11	2	87.2	86.4	83.3
Dunn	471	381	64	11	5	80.9	81.1	79.5
Eau Claire	1,058	858	147	38	8	81.1	80.5	80.1
Florence	33	31	2	-	-	93.9	76.3	85.9
Fond du Lac	1,141	987	130	15	9	86.5	86.0	88.0
Forest	93	69	21	2	1	74.2	73.5	81.9
Grant	505	410	79	12	1	81.2	79.7	77.9
Green	379	326	46	5	2	86.0	89.5	89.0
Green Lake	228	169	44	15	-	74.1	76.4	67.8
Iowa	290	250	34	4	1	86.2	88.0	76.3
Iron	38	37	1	-	-	97.4	90.5	86.0
Jackson	198	151	32	9	2	76.3	80.1	73.5
Jefferson	892	760	115	14	3	85.2	86.1	79.7
Juneau	277	212	57	6	2	76.5	77.5	89.5
Kenosha	2,077	1,710	287	53	26	82.3	82.4	76.4
Kewaunee	220	202	16	1	1	91.8	86.4	89.3
La Crosse	1,267	1,076	164	25	1	84.9	87.8	88.3
Lafayette	175	140	27	7	1	80.0	81.1	82.2
Langlade	199	159	34	5	1	79.9	85.2	83.2
Lincoln	304	262	31	7	3	86.2	84.8	87.0
Manitowoc	922	817	88	10	6	88.6	89.7	92.6
Marathon	1,476	1,175	240	53	6	79.6	80.2	81.1
Marinette	445	382	46	13	4	85.8	84.7	83.3
Marquette	126	98	24	2	2	77.8	71.8	72.8
Menominee	89	54	28	6	1	60.7	60.0	56.0
Milwaukee	14,733	11,875	2,190	440	225	80.6	81.4	78.8
Monroe	549	399	77	42	31	72.7	75.1	75.9

(Continued)

Table 14. Births by Trimester Prenatal Care Began and County of Residence, Wisconsin 1998

County	Total	Trimester Prenatal Care Began				Percent That Received First-Trimester Care		
		First	Second	Third	No Care	1998	1997	1996
Oconto	367	315	46	3	3	85.8	86.7	83.4
Oneida	332	275	46	7	4	82.8	87.6	86.5
Outagamie	2,172	1,851	272	41	7	85.2	85.5	87.5
Ozaukee	967	907	45	10	2	93.8	94.7	94.3
Pepin	81	50	20	8	1	61.7	65.5	69.3
Pierce	434	367	55	9	-	84.6	85.5	83.4
Polk	425	316	94	7	2	74.4	81.7	78.7
Portage	741	599	120	17	5	80.8	75.4	70.9
Price	157	132	18	5	1	84.1	80.7	89.6
Racine	2,633	2,066	381	129	56	78.5	78.8	79.1
Richland	199	140	38	15	5	70.4	82.8	73.3
Rock	2,040	1,755	203	56	17	86.0	84.6	86.6
Rusk	158	127	27	4	-	80.4	71.6	73.9
St. Croix	777	666	80	16	1	85.7	84.6	87.4
Sauk	711	576	98	29	8	81.0	83.8	84.9
Sawyer	154	109	35	4	6	70.8	77.7	66.5
Shawano	467	382	70	9	5	81.8	82.2	81.4
Sheboygan	1,323	1,146	141	28	8	86.6	89.5	92.4
Taylor	225	180	39	6	-	80.0	82.3	84.4
Trempealeau	337	289	38	7	2	85.8	84.5	81.6
Vernon	344	241	56	38	8	70.1	64.8	69.5
Vilas	175	150	17	6	2	85.7	80.7	79.6
Walworth	1,067	846	172	37	12	79.3	81.3	80.5
Washburn	148	118	22	7	1	79.7	81.9	82.4
Washington	1,469	1,360	86	21	2	92.6	92.1	91.9
Waukesha	4,124	3,928	145	40	11	95.2	94.5	93.9
Waupaca	596	515	63	16	2	86.4	85.5	84.6
Waushara	240	173	49	15	3	72.1	78.4	74.0
Winnebago	1,725	1,505	184	28	6	87.2	87.2	86.3
Wood	902	749	136	15	1	83.0	81.7	77.8

Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Notes: Included in the totals are 113 births for which prenatal care initiation was not reported. A dash (-) indicates that there were no births in that category.

Table 15. Births by Trimester Prenatal Care Began and Region, Wisconsin 1998

	Total	Trimester Prenatal Care Began				Percent That Received First-Trimester Care		
		First	Second	Third	No Care	1998	1997	1996
Total	67,379	56,645	8,324	1,689	608	84.1%	84.4%	83.9%
DHFS Regions								
Southern	11,638	9,986	1,307	236	81	85.8	86.6	86.6
Southeastern	27,962	23,452	3,421	744	337	83.9	84.4	83.1
Northeastern	13,910	11,964	1,572	286	77	86.0	86.3	86.6
Western	8,693	7,028	1,230	294	80	80.8	80.7	81.0
Northern	5,176	4,215	794	129	33	81.4	80.9	79.7
Perinatal Regions								
South Central	13,391	11,436	1,552	281	94	85.4	86.3	86.3
Southeast	27,326	22,992	3,275	721	330	84.1	84.7	83.5
Fox Valley	6,708	5,726	809	139	31	85.4	85.3	85.6
Northeast	5,879	5,092	622	119	38	86.6	86.7	86.5
Western	7,398	6,018	1,016	241	69	81.3	81.6	81.6
North Central	5,332	4,277	854	162	34	80.2	79.5	79.5
Northwest	1,345	1,104	196	26	12	82.1	83.1	79.8

Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Notes: Included in the totals are 113 births for which prenatal care initiation was not reported. For maps of the Department of Health and Family Services (DHFS) and Perinatal Regions, see Technical Notes (pages 95 and 96).

Table 16. Births by Number of Prenatal Care Visits and County of Residence, Wisconsin 1998

County	Total	Number of Prenatal Care Visits					Percent of Births With <10 Visits
		No Visits	1-4	5-9	10-12	13+	
Total	67,379	608	1,932	11,825	29,652	23,171	21.3%
Adams	167	2	6	51	75	33	35.3
Ashland	208	1	8	45	86	68	26.0
Barron	475	5	9	74	178	207	18.5
Bayfield	139	2	1	36	59	41	28.1
Brown	3,130	18	90	510	1,161	1,346	19.7
Buffalo	143	1	2	22	53	56	17.5
Burnett	149	-	6	36	67	36	28.2
Calumet	480	2	6	127	241	104	28.1
Chippewa	633	-	11	210	280	132	34.9
Clark	537	10	47	165	211	104	41.3
Columbia	620	4	15	113	300	187	21.3
Crawford	206	2	7	68	79	50	37.4
Dane	5,125	35	71	883	2,674	1,445	19.3
Dodge	944	1	15	115	463	350	13.9
Door	239	-	3	46	109	80	20.5
Douglas	509	2	16	111	269	103	25.3
Dunn	471	5	14	87	213	142	22.5
Eau Claire	1,058	8	44	157	382	457	19.8
Florence	33	-	-	4	9	18	12.1
Fond du Lac	1,141	9	17	204	607	304	20.2
Forest	93	1	6	23	35	28	32.3
Grant	505	1	16	147	210	127	32.5
Green	379	2	3	35	162	177	10.6
Green Lake	228	-	13	48	91	76	26.8
Iowa	290	1	3	53	141	91	19.7
Iron	38	-	1	4	11	21	13.2
Jackson	198	2	4	40	73	76	23.2
Jefferson	892	3	14	121	390	364	15.5
Juneau	277	2	8	90	101	76	36.1
Kenosha	2,077	26	38	290	940	773	17.0
Kewaunee	220	1	2	36	84	97	17.7
La Crosse	1,267	1	21	267	458	519	22.8
Lafayette	175	1	6	34	71	63	23.4
Langlade	199	1	3	47	77	71	25.6
Lincoln	304	3	8	57	136	100	22.4
Manitowoc	922	6	15	84	366	449	11.4
Marathon	1,476	6	70	427	646	325	34.1
Marinette	445	4	10	45	140	246	13.3
Marquette	126	2	5	28	57	33	27.8
Menominee	89	1	10	25	36	17	40.4
Milwaukee	14,733	225	662	2,590	6,183	5,052	23.6
Monroe	549	31	58	71	174	214	29.1

(Continued)

Table 16. Births by Number of Prenatal Care Visits and County of Residence, Wisconsin 1998

County	Total	Number of Prenatal Care Visits					Percent of Births With <10 Visits
		No Visits	1-4	5-9	10-12	13+	
Oconto	367	3	7	64	151	142	20.2
Oneida	332	4	3	46	140	138	16.0
Outagamie	2,172	7	42	594	1,104	424	29.6
Ozaukee	967	2	8	117	557	283	13.1
Pepin	81	1	7	23	26	24	38.3
Pierce	434	-	11	101	181	138	25.8
Polk	425	2	9	113	154	137	29.2
Portage	741	5	11	143	338	239	21.5
Price	157	1	4	43	59	49	30.6
Racine	2,633	56	77	384	1,102	1,010	19.6
Richland	199	5	15	44	73	61	32.2
Rock	2,040	17	45	378	1,031	556	21.6
Rusk	158	-	4	35	76	43	24.7
St. Croix	777	1	15	148	339	256	21.1
Sauk	711	8	30	124	317	232	22.8
Sawyer	154	6	7	50	59	32	40.9
Shawano	467	5	18	99	204	139	26.1
Sheboygan	1,323	8	23	173	618	501	15.4
Taylor	225	-	6	47	72	100	23.6
Trempealeau	337	2	6	56	134	135	19.0
Vernon	344	8	60	56	120	99	36.0
Vilas	175	2	6	14	69	84	12.6
Walworth	1,067	12	26	233	490	304	25.4
Washburn	148	1	5	34	65	43	27.0
Washington	1,469	2	19	141	567	740	11.0
Waukesha	4,124	11	28	243	1,770	2,067	6.8
Waupaca	596	2	12	136	308	138	25.2
Waushara	240	3	14	61	96	64	32.5
Winnebago	1,725	6	26	313	866	512	20.0
Wood	902	1	24	186	468	223	23.4

Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Notes: Included in the totals are 191 births for which number of prenatal care visits was not reported.
A dash (-) indicates that there were no births in that category.

Table 17. Births by Number of Prenatal Care Visits and Region, Wisconsin 1998

	Total	Number of Prenatal Care Visits					Percent of Births with <10 Visits
		No Visits	1-4	5-9	10-12	13+	
Total	67,379	608	1,932	11,825	29,652	23,171	21.2%
DHFS Regions							
Southern	11,638	81	240	2,135	5,697	3,448	21.1
Southeastern	27,962	337	872	4,119	11,999	10,593	19.1
Northeastern	13,910	77	313	2,593	6,239	4,672	21.4
Western	8,693	80	349	1,806	3,453	2,921	25.7
Northern	5,176	33	158	1,172	2,264	1,537	26.3
Perinatal Regions							
South Central	13,391	94	273	2,421	6,498	4,066	20.8
Southeast	27,326	330	855	3,938	11,737	10,426	18.7
Fox Valley	6,708	31	135	1,511	3,370	1,655	25.0
Northeast	5,879	38	155	909	2,251	2,516	18.7
Western	7,398	69	278	1,493	2,844	2,642	24.9
North Central	5,332	34	192	1,237	2,336	1,522	27.4
Northwest	1,345	12	44	316	616	344	27.7

Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Notes: Included in the totals are 191 births for which number of prenatal care visits was not reported. For maps of the Department of Health and Family Services (DHFS) and Perinatal Regions, see Technical Notes (pages 95 and 96).

Table 18. Births by Birthweight and County of Residence, Wisconsin 1998

Table 18. Births by Birthweight and County of Residence, Wisconsin 1998							
	Total		1,500- 2,499	2,500+	Total	Percent	
County	Births	<1,500 Grams	Grams	Grams	<2,500 Grams	Low Birthweight 1998	1997
Total	67,379	828	3,584	62,960	4,412	6.5%	6.4%
Adams	167	2	12	153	14	8.4	7.0
Ashland	208		11	197	11	5.3	7.4
Barron	475	6	20	448	26	5.5	4.3
Bayfield	139	4	12	123	16	11.5	5.4
Brown	3,130	36	171	2,923	207	6.6	5.7
Buffalo	143	2	3	138	5	3.5	4.9
Burnett	149	3	6	140	9	6.0	4.5
Calumet	480	7	21	452	28	5.8	6.9
Chippewa	633	5	30	598	35	5.5	6.7
Clark	537	2	22	513	24	4.5	4.9
Columbia	620	10	31	579	41	6.6	6.5
Crawford	206	4	11	191	15	7.3	3.3
Dane	5,125	69	269	4,787	338	6.6	6.0
Dodge	944	8	56	880	64	6.8	6.3
Door	239	3	12	224	15	6.3	4.1
Douglas	509	7	25	476	32	6.3	4.9
Dunn	471	9	23	439	32	6.8	4.9
Eau Claire	1,058	8	45	1,005	53	5.0	6.2
Florence	33		1	32	1	3.0	10.5
Fond du Lac	1,141	16	56	1,069	72	6.3	4.8
Forest	93	2	2	89	4	4.3	4.3
Grant	505	5	17	482	22	4.4	5.1
Green	379	2	13	364	15	4.0	4.1
Green Lake	228	1	15	212	16	7.0	7.9
Iowa	290		18	272	18	6.2	4.2
Iron	38	-	4	34	4	10.5	3.2
Jackson	198	4	6	188	10	5.1	1.9
Jefferson	892	9	39	844	48	5.4	5.1
Juneau	277	1	13	263	14	5.1	7.7
Kenosha	2,077	24	107	1,946	131	6.3	6.6
Kewaunee	220		8	212	8	3.6	4.4
La Crosse	1,267	16	57	1,194	73	5.8	7.2
Lafayette	175	2	2	171	4	2.3	2.5
Langlade	199		7	192	7	3.5	8.3
Lincoln	304	5	13	286	18	5.9	3.0
Manitowoc	922	9	46	867	55	6.0	6.5
Marathon	1,476	9	62	1,405	71	4.8	5.8
Marinette	445	2	25	418	27	6.1	5.4
Marquette	126		3	123	3	2.4	7.3
Menominee	89	3	6	80	9	10.1	3.2
Milwaukee	14,733	262	1,030	13,440	1,292	8.8	8.8
Monroe	549	5	28	516	33	6.0	7.0

(Continued)

Table 18. Births by Birthweight and County of Residence, Wisconsin 1998

County	Total Births	<1,500 Grams	1,500-2,499 Grams	2,500+ Grams	Total <2,500 Grams	Percent Low Birthweight	
						1998	1997
Oconto	367	6	14	347	20	5.4	5.2
Oneida	332	2	13	317	15	4.5	6.3
Outagamie	2,172	17	111	2,044	128	5.9	5.0
Ozaukee	967	15	48	904	63	6.5	5.9
Pepin	81	-	2	79	2	2.5	6.9
Pierce	434	5	19	410	24	5.5	5.2
Polk	425	11	22	391	33	7.8	5.1
Portage	741	6	34	701	40	5.4	4.7
Price	157	2	8	147	10	6.4	8.0
Racine	2,633	41	165	2,427	206	7.8	6.8
Richland	199		8	191	8	4.0	4.2
Rock	2,040	24	112	1,903	136	6.7	7.2
Rusk	158	-	9	149	9	5.7	2.5
St. Croix	777	8	43	725	51	6.6	5.4
Sauk	711		30	681	30	4.2	5.6
Sawyer	154	1	6	147	7	4.5	4.6
Shawano	467	6	30	431	36	7.7	5.0
Sheboygan	1,323	7	48	1,268	55	4.2	5.3
Taylor	225	4	10	211	14	6.2	3.0
Trempealeau	337	4	20	313	24	7.1	4.0
Vernon	344	1	13	330	14	4.1	6.1
Vilas	175	2	6	167	8	4.6	6.4
Walworth	1,067	16	45	1,006	61	5.7	5.9
Washburn	148	1	6	141	7	4.7	6.3
Washington	1,469	11	50	1,408	61	4.2	4.0
Waukesha	4,124	40	186	3,898	226	5.5	5.0
Waupaca	596	5	30	561	35	5.9	6.3
Waushara	240	9	8	223	17	7.1	6.4
Winnebago	1,725	15	91	1,619	106	6.1	6.8
Wood	902	7	39	856	46	5.1	6.4

Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Notes: Included in the totals are 7 births for which birthweight was not reported. Infants weighing less than 2,500 grams (5.5 pounds) at birth are considered low birthweight. Infants weighing less than 1,500 grams (3.3 pounds) at birth are considered very low birthweight. A dash (-) indicates that there were no births in that category.

Table 19. Births by Birthweight and Region, Wisconsin 1998

	Total Births	<1,500 Grams	1,500- 2,499 Grams	2,500+ Grams	Total <2,500 Grams	Percent Low Birthweight	
						1998	1997
Total	67,379	828	3,584	62,960	4,412	6.5%	6.4%
DHFS Regions							
Southern	11,638	127	592	10,917	719	6.2	6.0
Southeastern	27,962	418	1,670	25,873	2,088	7.5	7.3
Northeastern	13,910	142	695	13,073	837	6.0	5.7
Western	8,693	97	399	8,193	496	5.7	5.7
Northern	5,176	44	228	4,904	272	5.3	5.7
Perinatal Regions							
South Central	13,391	148	665	12,576	813	6.1	6.0
Southeast	27,326	400	1,634	25,291	2,034	7.4	7.3
Fox Valley	6,708	70	335	6,303	405	6.0	5.9
Northeast	5,879	65	312	5,502	377	6.4	5.6
Western	7,398	88	342	6,965	430	5.8	5.8
North Central	5,332	41	226	5,065	267	5.0	5.6
Northwest	1,345	16	70	1,258	86	6.4	5.3

Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Notes: Included in the totals are 7 births for which birthweight was not reported. Infants weighing less than 2,500 grams or 5.5 pounds at birth are considered low birthweight. Infants weighing less than 1,500 grams or 3.3 pounds at birth are considered very low birthweight.
For maps of the Department of Health and Family Services (DHFS) and Perinatal Regions, see Technical Notes, pages 95 and 96.

Table 20. Fetal, Neonatal, Postneonatal and Infant Deaths by County of Residence, Wisconsin 1998

County	Fetal Deaths (Gestation >20 weeks)	Neonatal Deaths (Age <28 days)	+	Postneonatal Deaths (Age 28 days to 1 year)	=	Infant Deaths (Age < 1 year)
Total	401	343		145		488
Adams	-	3		-		3
Ashland	1	-		-		-
Barron	3	3		2		5
Bayfield	2	2		1		3
Brown	24	14		8		22
Buffalo	2	1		-		1
Burnett	1	1		-		1
Calumet	2	2		1		3
Chippewa	6	4		2		6
Clark	2	2		-		2
Columbia	8	1		1		2
Crawford	3	1		-		1
Dane	24	31		8		39
Dodge	4	6		6		12
Door	1	1		1		2
Douglas	2	-		1		1
Dunn	4	2		-		2
Eau Claire	5	2		3		5
Florence	-	-		-		-
Fond du Lac	9	9		1		10
Forest	-	-		1		1
Grant	2	4		2		6
Green	1	1		2		3
Green Lake	-	-		-		-
Iowa	-	-		1		1
Iron	-	-		-		-
Jackson	-	-		-		-
Jefferson	8	4		1		5
Juneau	3	-		-		-
Kenosha	8	13		7		20
Kewaunee	-	-		1		1
La Crosse	4	7		-		7
Lafayette	3	1		-		1
Langlade	2	-		-		-
Lincoln	3	3		1		4
Manitowoc	8	3		-		3

(Continued)

Table 20. Fetal, Neonatal, Postneonatal and Infant Deaths by County of Residence, Wisconsin 1998

County	Fetal Deaths (Gestation >20 weeks)	Neonatal Deaths (Age <28 days)	+ Postneonatal Deaths (Age 28 days to 1 year)	= Infant Deaths (Age < 1 year)
Marathon	5	4	-	4
Marinette	5	4	2	6
Marquette	-	1	-	1
Menominee	-	-	1	1
Milwaukee	117	109	42	151
Monroe	5	-	2	2
Oconto	-	4	-	4
Oneida	1	1	-	1
Outagamie	15	10	3	13
Ozaukee	3	6	2	8
Pepin	-	-	-	-
Pierce	1	3	-	3
Polk	3	2	-	2
Portage	2	3	2	5
Price	1	3	1	4
Racine	17	12	7	19
Richland	-	2	-	2
Rock	9	6	9	15
Rusk	2	-	1	1
St. Croix	4	3	-	3
Sauk	3	-	4	4
Sawyer	2	-	-	-
Shawano	3	3	2	5
Sheboygan	8	3	1	4
Taylor	1	2	1	3
Trempealeau	1	2	1	3
Vernon	4	1	-	1
Vilas	4	-	2	2
Walworth	6	11	1	12
Washburn	1	-	-	-
Washington	5	4	2	6
Waukesha	14	16	3	19
Waupaca	6	-	2	2
Waushara	1	3	-	3
Winnebago	7	2	-	2
Wood	-	2	3	5
Unknown	-	-	-	-

Source: Fetal death and matched birth-death files, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Note: A dash (-) indicates that there were no events in that category.

Table 21. Fetal, Neonatal, Postneonatal and Infant Deaths by Selected Cities, Wisconsin 1998

City of Occurrence	Fetal Deaths (Gestation >20 weeks)	Neonatal Deaths (Age <28 days)	+ Postneonatal Deaths (Age 28 days to 1 year)	= Infant Deaths (Age < 1 year)
Appleton	7	4	2	6
Beloit	4	2	5	7
Eau Claire	5	2	2	4
Fond du Lac	2	4	-	4
Green Bay	14	5	4	9
Greenfield	1	1	1	2
Janesville	4	-	3	3
Kenosha	7	11	7	18
La Crosse	1	4	-	4
Madison	14	19	7	26
Manitowoc	4	1	-	1
Marshfield	-	-	-	-
Mequon/Thiensville	-	2	-	2
Milwaukee	106	97	36	133
Neenah/Menasha	2	1	-	1
Oshkosh	4	1	-	1
Racine	13	11	5	16
Sheboygan	5	2	1	3
Stevens Point	1	2	1	3
Superior	2	-	1	1
Watertown	4	3	-	3
Waukesha	3	3	-	3
Wausau	3	1	-	1
Wauwatosa	4	2	-	2
West Allis	-	3	2	5
West Bend	2	1	1	2

Source: Fetal death and matched birth-death files, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Note: A dash (-) indicates that there were no events in that category.

Table 22. Number of Births by County of Residence, Wisconsin 1980-1998

County	1980	1981	1982	1983	1984	1985	1986	1987	1988
Total	74,763	74,309	74,327	72,499	73,050	73,647	72,229	70,907	70,711
Adams	179	177	175	164	182	170	170	164	173
Ashland	279	302	282	295	256	248	274	220	256
Barron	654	693	745	679	672	628	578	567	571
Bayfield	219	212	209	230	200	193	187	174	174
Brown	2,802	2,824	2,833	2,856	2,821	2,917	2,829	2,910	2,847
Buffalo	236	197	239	229	184	227	213	220	165
Burnett	167	203	179	194	162	160	157	152	142
Calumet	546	519	556	551	550	514	567	546	536
Chippewa	903	924	854	920	851	867	822	709	715
Clark	641	581	587	576	533	514	468	488	518
Columbia	667	668	682	655	624	650	657	608	579
Crawford	293	284	296	276	272	239	251	250	241
Dane	4,685	4,638	4,684	4,657	4,902	4,984	5,067	5,124	5,070
Dodge	1,186	1,173	1,187	1,108	1,115	1,146	1,115	1,055	1,020
Door	412	397	406	379	345	400	368	376	317
Douglas	702	713	676	645	580	590	549	547	532
Dunn	537	536	551	503	506	501	467	398	436
Eau Claire	1,117	1,265	1,255	1,185	1,203	1,201	1,111	1,178	1,237
Florence	55	64	66	54	50	63	51	45	57
Fond du Lac	1,512	1,406	1,409	1,333	1,382	1,368	1,316	1,247	1,248
Forest	140	161	147	156	144	156	136	152	136
Grant	867	814	812	805	785	743	753	713	626
Green	483	471	514	507	439	471	469	404	404
Green Lake	262	325	287	310	279	266	240	230	237
Iowa	345	342	340	366	335	319	346	305	306
Iron	84	72	86	64	63	76	63	68	66
Jackson	276	271	291	257	236	240	228	230	249
Jefferson	973	1,029	952	953	987	1,004	893	901	849
Juneau	347	355	331	343	327	339	301	323	279
Kenosha	1,826	1,815	1,789	1,839	1,796	1,910	1,787	1,931	1,909
Kewaunee	323	347	311	303	336	303	274	301	227
La Crosse	1,350	1,396	1,372	1,470	1,443	1,394	1,408	1,365	1,362
Lafayette	289	339	300	321	314	271	265	229	213
Langlade	287	313	271	334	276	259	299	249	280
Lincoln	406	460	383	384	405	363	323	349	315
Manitowoc	1,338	1,262	1,345	1,208	1,263	1,228	1,127	1,136	1,040

(Continued)

Table 22. Number of Births by County of Residence, Wisconsin 1980-1998

County	1980	1981	1982	1983	1984	1985	1986	1987	1988
Marathon	1,930	1,806	1,804	1,728	1,730	1,812	1,650	1,644	1,620
Marinette	662	671	578	559	551	592	562	535	494
Marquette	167	163	183	148	184	158	175	169	141
Menominee	111	96	108	116	112	132	151	138	113
Milwaukee	15,842	15,806	16,063	15,631	15,887	16,296	16,254	16,035	16,358
Monroe	607	582	638	564	581	600	555	552	569
Oconto	469	435	461	415	458	451	453	413	433
Oneida	423	467	429	425	455	437	423	373	387
Outagamie	2,340	2,229	2,172	2,197	2,171	2,320	2,180	2,227	2,268
Ozaukee	992	963	932	935	943	960	954	955	947
Pepin	128	127	112	131	128	94	122	97	98
Pierce	507	527	532	484	494	492	498	434	452
Polk	506	561	560	520	596	506	488	506	466
Portage	928	891	896	851	956	876	903	818	850
Price	242	232	243	238	238	225	215	182	209
Racine	2,980	2,855	2,717	2,691	2,794	2,641	2,653	2,661	2,640
Richland	275	302	281	278	284	267	228	246	219
Rock	2,256	2,115	2,196	2,088	2,116	2,189	2,183	2,106	2,079
Rusk	222	251	259	256	258	216	234	203	202
St. Croix	835	773	762	788	815	741	805	824	740
Sauk	654	696	691	661	697	690	674	671	663
Sawyer	219	239	228	215	224	203	224	228	196
Shawano	528	543	550	536	530	488	499	507	531
Sheboygan	1,588	1,595	1,588	1,515	1,517	1,507	1,492	1,379	1,397
Taylor	379	339	370	345	340	354	294	280	309
Trempealeau	373	416	400	387	392	370	352	324	316
Vernon	408	440	408	376	409	409	406	328	344
Vilas	228	218	226	222	236	240	214	228	190
Walworth	1,026	971	1,053	915	896	1,009	951	914	995
Washburn	226	202	208	210	227	198	201	171	158
Washington	1,442	1,422	1,387	1,359	1,359	1,383	1,335	1,305	1,315
Waukesha	3,841	3,824	3,808	3,610	3,661	3,727	3,799	3,779	3,940
Waupaca	697	690	677	660	625	656	637	597	603
Waushara	243	236	267	294	241	247	266	259	231
Winnebago	1,901	1,867	1,945	1,887	1,961	2,028	1,964	1,894	1,901
Wood	1,199	1,211	1,192	1,155	1,166	1,211	1,106	1,061	1,005
Unknown	1	-	1	-	-	-	-	-	-

(Continued)

Table 22. Number of Births by County of Residence, Wisconsin 1980-1998

County	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
Total	71,890	72,636	72,039	70,662	69,760	68,265	67,493	67,076	66,490	67,379
Adams	144	175	162	189	163	162	167	184	157	167
Ashland	249	202	197	207	225	199	239	234	202	208
Barron	557	579	553	556	496	517	550	503	463	475
Bayfield	153	155	150	183	157	141	135	149	147	139
Brown	2,968	3,169	3,141	2,947	3,035	3,051	2,962	3,050	3,051	3,130
Buffalo	175	176	182	156	169	156	165	146	143	143
Burnett	164	143	149	154	142	135	171	147	133	149
Calumet	538	491	478	524	485	495	488	466	452	480
Chippewa	738	704	720	668	675	643	633	590	638	633
Clark	434	464	429	405	434	452	448	467	470	537
Columbia	585	610	605	584	640	610	607	616	633	620
Crawford	203	230	206	203	184	197	215	183	182	206
Dane	5,136	5,306	5,224	5,209	5,181	4,848	5,023	4,976	5,023	5,125
Dodge	1,029	985	995	938	1,013	936	947	976	926	944
Door	320	325	322	298	305	270	254	260	218	239
Douglas	517	540	599	532	525	527	493	532	507	509
Dunn	436	417	399	451	428	439	444	434	466	471
Eau Claire	1,238	1,208	1,188	1,134	1,163	1,133	1,118	1,079	1,105	1,058
Florence	26	-	62	66	45	48	36	48	38	33
Fond du Lac	1,162	1,270	1,224	1,215	1,107	1,128	1,119	1,138	1,118	1,141
Forest	114	132	134	136	138	125	137	92	117	93
Grant	635	661	606	595	555	544	561	497	526	505
Green	429	418	420	419	380	368	390	408	370	379
Green Lake	214	241	217	198	187	204	192	208	216	228
Iowa	302	318	289	292	279	254	296	260	259	290
Iron	55	68	65	55	64	66	63	57	63	38
Jackson	229	217	219	215	217	204	189	193	211	198
Jefferson	927	873	872	824	898	877	852	891	914	892
Juneau	278	277	307	305	277	296	308	264	271	277
Kenosha	2,077	2,043	2,234	2,167	2,039	2,026	2,040	2,008	2,027	2,077
Kewaunee	259	237	216	229	226	216	218	214	228	220
La Crosse	1,388	1,416	1,406	1,364	1,346	1,343	1,267	1,236	1,327	1,267
Lafayette	220	227	240	214	198	180	176	180	159	175
Langlade	242	232	244	263	266	219	228	214	229	199
Lincoln	372	343	332	358	343	356	320	338	329	304
Manitowoc	1,035	1,072	1,060	1,006	1,000	955	898	941	902	922

(Continued)

Table 22. Number of Births by County of Residence, Wisconsin 1980-1998

County	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
Marathon	1,685	1,685	1,651	1,664	1,631	1,801	1,585	1,621	1,581	1,476
Marinette	471	431	508	428	492	467	454	424	424	445
Marquette	149	148	137	138	138	147	121	147	177	126
Menominee	114	128	128	115	118	76	92	91	95	89
Milwaukee	17,009	17,013	16,686	16,547	16,076	15,538	15,067	14,791	14,338	14,733
Monroe	622	591	569	564	537	514	529	557	511	549
Oconto	410	398	404	370	392	360	388	374	347	367
Oneida	365	371	355	387	361	382	352	326	347	332
Outagamie	2,258	2,273	2,273	2,212	2,134	2,166	2,056	2,101	2,176	2,172
Ozaukee	973	945	964	950	956	929	934	961	860	967
Pepin	87	90	100	83	80	76	83	75	87	81
Pierce	436	477	423	398	405	435	403	373	344	434
Polk	441	529	461	453	469	463	470	409	415	425
Portage	804	913	804	851	815	814	788	796	759	741
Price	190	185	206	178	181	157	184	154	150	157
Racine	2,782	2,697	2,771	2,617	2,690	2,561	2,512	2,592	2,564	2,633
Richland	234	219	213	201	200	208	196	187	192	199
Rock	2,120	2,166	2,155	2,121	2,149	2,021	1,963	1,969	1,990	2,040
Rusk	229	213	195	192	222	195	192	161	162	158
St. Croix	817	840	797	819	713	602	725	767	758	777
Sauk	669	670	648	620	678	662	670	676	697	711
Sawyer	187	176	178	200	176	199	196	188	175	154
Shawano	501	525	497	463	449	454	456	458	438	467
Sheboygan	1,380	1,401	1,369	1,343	1,351	1,389	1,336	1,333	1,348	1,323
Taylor	292	289	258	248	247	232	221	225	198	225
Trempeleau	327	369	356	367	333	348	315	326	328	337
Vernon	356	332	352	318	319	334	351	338	347	344
Vilas	195	201	208	205	201	152	205	167	171	175
Walworth	891	996	999	935	911	978	952	1,019	1,019	1,067
Washburn	157	159	141	167	162	155	168	148	144	148
Washington	1,335	1,349	1,421	1,396	1,405	1,393	1,440	1,456	1,415	1,469
Waukesha	4,038	4,046	4,058	4,026	3,963	4,122	4,120	4,138	4,156	4,124
Waupaca	604	667	640	661	630	599	619	617	573	596
Waushara	234	245	240	237	225	231	240	219	236	240
Winnebago	1,909	1,936	1,983	1,883	1,901	1,864	1,838	1,756	1,826	1,725
Wood	1,070	1,039	1,045	1,046	1,065	921	923	957	922	902
Unknown	1	-	-	-	-	-	-	-	-	-

Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Notes: In Wisconsin counties close to the Michigan border, births for 1990 are underreported to an unknown extent, since Michigan did not report Wisconsin resident births for that year. In particular, all 1990 births among Florence County residents occurred in Michigan. Numbers of births for 1996 reported here are slightly different from those published in the 1996 report because other states filed 74 duplicate records for Wisconsin residents. A dash (-) indicates there were no births in that category.

Table 23. Number and Rate of Births by Age of Mother, Wisconsin 1980-1998

		Crude Rate	Age of Mother					
Year			Total	<15	15-17	18-19	<20	20-24
1980	Number		74,763	93	2,741	6,379	9,213	25,321
	Rate	15.9	69.1		20.5	65.8	39.9	112.2
1981	Number		74,309	94	2,655	6,029	8,778	24,777
	Rate	15.7	68.1		21.0	64.6	39.9	108.2
1982	Number		74,327	91	2,452	5,659	8,202	24,477
	Rate	15.6	67.4		20.8	64.1	39.8	107.4
1983	Number		72,499	98	2,397	5,258	7,753	23,213
	Rate	15.3	65.3		21.0	60.4	38.6	103.2
1984	Number		73,050	98	2,305	4,973	7,376	22,544
	Rate	15.3	65.0		20.8	59.9	38.0	102.5
1985	Number		73,647	123	2,389	4,976	7,488	22,021
	Rate	15.4	64.2		21.7	62.4	39.4	101.9
1986	Number		72,229	121	2,340	4,679	7,140	20,342
	Rate	15.1	63.9		20.9	60.6	37.8	103.3
1987	Number		70,907	114	2,369	4,425	6,908	19,015
	Rate	14.7	63.7		21.6	58.0	37.1	103.9
1988	Number		70,711	133	2,322	4,486	6,941	18,018
	Rate	14.6	62.6		22.8	59.5	39.2	94.2
1989	Number		71,890	141	2,416	4,707	7,264	17,800
	Rate	14.8	63.8		25.4	62.5	42.6	96.8
1990	Number		72,636	148	2,337	4,925	7,410	17,477
	Rate	14.8	64.5		24.3	65.7	43.3	96.2
1991	Number		72,039	147	2,440	4,828	7,415	17,407
	Rate	14.6	63.4		24.9	71.1	44.7	94.9
1992	Number		70,662	159	2,427	4,622	7,208	16,597
	Rate	14.2	62.2		23.9	70.1	43.0	91.7
1993	Number		69,760	175	2,481	4,576	7,232	16,056
	Rate	13.8	61.4		23.8	67.7	42.0	90.9
1994	Number		68,267	161	2,497	4,379	7,037	15,331
	Rate	13.4	59.9		23.0	63.8	39.7	89.5
1995	Number		67,493	182	2,549	4,379	7,110	14,874
	Rate	13.2	58.9		22.5	62.7	38.8	88.7
1996	Number		67,076	143	2,507	4,453	7,103	14,331
	Rate	13.0	58.2		21.4	61.9	37.5	87.4
1997	Number		66,490	163	2,541	4,384	7,088	13,972
	Rate	12.7	57.6		21.1	58.5	36.3	84.8
1998	Number		67,379	111	2,366	4,570	7,047	14,632
	Rate	12.8	58.1		19.4	57.7	35.1	86.8
(Continued)								

(Continued)

Table 23. Number and Rate of Births by Age of Mother, Wisconsin 1980-1998

Year		Age of Mother						Unknown
		25-29	30-34	35-39	40+	40-44	45+	
1980	Number	25,461	11,682	2,604	481	459	22	1
	Rate	127.5	67.3	19.0	4.1	4.0		
1981	Number	25,471	12,104	2,699	480	442	38	
	Rate	125.5	66.1	19.4	4.1	3.8		
1982	Number	25,357	12,760	3,065	465	440	25	1
	Rate	124.9	66.1	20.4	3.8	3.6		
1983	Number	24,787	12,974	3,285	485	462	23	2
	Rate	119.7	66.5	22.5	3.6	3.4		
1984	Number	25,446	13,715	3,462	504	471	33	3
	Rate	120.6	67.2	20.6	4.0	3.7		
1985	Number	25,693	14,170	3,769	505	473	32	1
	Rate	117.3	67.2	22.3	3.6	3.3		
1986	Number	25,718	14,374	4,121	534	499	35	
	Rate	120.2	70.5	23.0	3.6	3.4		
1987	Number	25,393	14,709	4,353	528	498	30	1
	Rate	119.8	72.8	24.1	3.5	3.3		
1988	Number	25,267	15,338	4,474	669	630	39	4
	Rate	116.6	73.9	24.1	4.4	4.2		
1989	Number	25,265	15,922	4,909	721	683	38	9
	Rate	118.8	75.2	25.8	4.5	4.3		
1990	Number	24,956	16,626	5,393	768	730	38	6
	Rate	123.7	78.7	27.8	4.6	4.4		
1991	Number	23,958	16,960	5,481	817	773	44	1
	Rate	123.1	79.5	27.5	4.5	4.3		
1992	Number	22,918	17,269	5,756	905	859	46	9
	Rate	121.5	81.1	28.3	5.0	4.7		
1993	Number	22,154	17,347	6,024	942	898	44	5
	Rate	121.0	82.4	29.1	5.1	4.8		
1994	Number	20,961	17,642	6,292	997	955	42	7
	Rate	117.9	84.6	29.6	5.2	4.9		
1995	Number	20,374	17,442	6,612	1,074	1,026	48	7
	Rate	115.4	85.4	30.7	5.4	5.2		
1996	Number	20,279	17,254	6,931	1,175	1,132	43	3
	Rate	115.0	86.6	31.6	5.7	5.5		
1997	Number	19,994	17,198	7,008	1,228	1,172	56	2
	Rate	115.5	89.0	32.0	5.9	5.9		
1998	Number	19,932	17,126	7,385	1,252	1,191	61	5
	Rate	117.7	90.5	33.8	5.9	5.6		

Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Notes: Rates shown for ages <20 include births to mothers less than 15 years old, with population ages 15-19.

Rates shown for ages 40+ include births to mothers ages 45 or older, with population ages 40-44.

Table 24. Total Births and Births to Teenagers and Unmarried Mothers, Wisconsin 1980-1998

Year	Total Births		Ages Under 18		Ages 18-19		Mother Unmarried	
	Number	Rate*	Number	Percent**	Number	Percent**	Number	Percent**
1980	74,763	15.9	2,834	3.8	6,379	8.5	10,352	13.8
1981	74,309	15.7	2,749	3.7	6,029	8.1	10,622	14.3
1982	74,327	15.6	2,543	3.4	5,659	7.6	11,187	15.1
1983	72,499	15.3	2,495	3.4	5,258	7.3	11,501	15.9
1984	73,050	15.3	2,403	3.3	4,973	6.8	12,101	16.6
1985	73,647	15.4	2,512	3.4	4,976	6.8	13,346	18.1
1986	72,229	15.1	2,461	3.4	4,679	6.5	14,166	19.6
1987	70,907	14.7	2,483	3.5	4,425	6.2	14,686	20.7
1988	70,711	14.6	2,455	3.5	4,486	6.3	15,511	21.9
1989	71,890	14.8	2,557	3.6	4,707	6.5	16,790	23.4
1990	72,636	14.8	2,485	3.4	4,925	6.8	17,615	24.3
1991	72,039	14.6	2,587	3.6	4,828	6.7	18,226	25.3
1992	70,662	14.2	2,586	3.7	4,622	6.5	18,443	26.1
1993	69,760	13.8	2,656	3.8	4,576	6.6	18,878	27.1
1994	68,265	13.4	2,658	3.9	4,379	6.4	18,523	27.1
1995	67,493	13.2	2,731	4.0	4,379	6.5	18,420	27.3
1996	67,076	13.0	2,650	4.0	4,453	6.6	18,526	27.6
1997	66,490	12.7	2,704	4.1	4,384	6.6	18,884	28.4
1998	67,379	12.8	2,477	3.7	4,570	6.8	19,599	29.1

Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

* Crude birth rate or number of live births per 1,000 estimated mid-year total population.

** Percentages are based on total live births.

Table 25. Births by Selected Birth Indicators, Wisconsin 1980-1998

Year	Birth Order 4 and Above		Prenatal Care During First Trimester		Birthweight Less Than 2,500 Grams		Premature (Gestation <37 Weeks)		Congenital Anomalies	
	Number	Percent*	Number	Percent*	Number	Percent*	Number	Percent*	Number	Rate**
1980	7,035	9.4	61,796	82.7	4,037	5.4	4,037	5.4	795	10.6
1981	7,054	9.5	61,582	82.9	3,925	5.3	3,925	5.3	926	12.5
1982	6,677	9.0	61,420	82.6	3,734	5.0	3,734	5.0	877	11.8
1983	6,904	9.5	60,240	83.1	3,943	5.4	4,629	6.4	983	13.6
1984	6,973	9.5	61,225	83.8	3,756	5.1	4,488	6.1	1,103	15.1
1985	7,206	9.8	60,859	82.6	3,889	5.3	4,720	6.4	1,006	13.7
1986	7,587	10.5	59,652	82.6	3,876	5.4	4,802	6.6	952	13.2
1987	7,387	10.4	58,882	83.0	3,849	5.4	4,825	6.8	1,144	16.1
1988	7,849	11.1	58,551	82.8	3,857	5.5	4,834	6.8	1,197	16.9
1989	8,022	11.2	58,564	81.5	4,145	5.8	5,046	7.0	1,742	24.2
1990	8,272	11.4	59,275	81.6	4,284	5.9	5,708	7.9	1,523	21.0
1991	8,323	11.6	58,705	81.5	4,435	6.2	6,192	8.6	1,355	18.8
1992	8,396	11.9	57,804	81.8	4,204	5.9	5,978	8.5	1,260	17.8
1993	8,274	11.9	57,251	82.1	4,299	6.2	6,576	9.4	1,098	15.7
1994	8,149	11.9	56,716	83.1	4,358	6.4	6,795	10.0	847	12.4
1995	7,935	11.8	56,155	83.2	4,066	6.0	6,566	9.7	899	13.3
1996	7,689	11.5	56,273	83.9	4,217	6.3	6,619	9.9	912	13.6
1997	7,622	11.5	56,112	84.4	4,262	6.4	6,718	10.1	1,038	15.6
1998	7,644	11.3	56,645	84.1	4,412	6.5	6,910	10.3	988	14.7

Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

* Percentages are based on total live births.

** Rates are per 1,000 live births.

Notes: "Premature" means less than 37 weeks of gestation. Since 1983, gestational age has been calculated as the difference between the data of last normal menses and the date of delivery. Where date of last normal menses is unknown, clinical estimate of gestation is substituted. Gestational age may not have been calculated in this way before 1983, so caution is advised in making comparisons between years.

See Technical Notes (page 105) regarding comparability of data on congenital anomalies since 1989.

Table 26. Infant, Neonatal, Fetal and Perinatal Deaths and Mortality Rates, Wisconsin 1980-1998

Year	<u>Infant Deaths</u>			<u>Neonatal Deaths</u>			<u>Fetal Deaths</u>			<u>Perinatal Deaths</u>		
	Wisconsin Number	U.S. Rate*	Rate*	Wisconsin Number	U.S. Rate*	Rate*	Wisconsin Number	Rate**	U.S. Rate**	Wisconsin Number	Rate**	U.S. Rate**
1980	769	10.3	12.6	500	6.7	8.5	532	7.1	9.1	1,032	13.7	17.4
1981	769	10.3	11.9	514	6.9	8.0	552	7.4	8.9	1,066	14.2	16.9
1982	700	9.4	11.5	460	6.2	7.7	524	7.0	8.8	984	13.1	16.4
1983	699	9.6	11.2	459	6.3	7.3	476	6.5	8.4	935	12.8	15.6
1984	724	9.9	10.8	458	6.3	7.0	517	7.0	8.1	975	13.2	15.1
1985	674	9.2	10.6	414	5.6	7.0	481	6.5	7.8	895	12.1	14.7
1986	671	9.3	10.4	414	5.7	6.7	471	6.5	7.7	885	12.2	14.3
1987	611	8.6	10.1	361	5.1	6.5	445	6.2	7.6	806	11.3	14.1
1988	598	8.5	10.0	358	5.1	6.3	430	6.0	7.5	788	11.1	13.7
1989	662	9.2	9.8	401	5.6	6.2	480	6.6	7.5	881	12.2	13.7
1990	611	8.4	9.2	358	4.9	5.8	444	6.1	7.5	802	11.0	13.3
1991	608	8.4	8.9	370	5.1	5.6	427	5.9	7.3	797	11.0	12.8
1992	514	7.3	8.6	310	4.4	5.4	457	6.4	7.4	767	10.8	12.7
1993	553	7.9	8.4	331	4.7	5.3	401	5.7	7.1	732	10.4	12.4
1994	541	7.9	8.0	327	4.8	5.1	438	6.4	7.0	765	11.1	12.1
1995	493	7.3	7.6	311	4.6	4.9	403	5.9	7.0	714	10.5	11.8
1996	492	7.3	7.3	314	4.7	4.8	416	6.2	6.9	730	10.9	11.6
1997	431	6.5	7.2	294	4.4	4.8	361	5.4	6.8	655	9.8	11.5
1998	488	7.2	7.2	343	5.1	4.8	401	5.9	N/A	744	11.0	N/A

Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

* Rates are per 1,000 live births.

** Rates are per 1,000 live births and fetal deaths.

N/A Not Available.

Notes: U.S. rates of perinatal death for the years 1992-1996 are from the National Center for Health Statistics (unpublished data). U.S. rates for 1998 are preliminary. See Technical Notes (page 102) for definition of perinatal deaths.

Table A1. Number of Births by Age of Mother and Selected Characteristics, Wisconsin 1998

	Total	<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+
Total	67,379	111	2,366	4,570	14,632	19,932	17,126	7,385	1,191	61
Education										
Elem. or Less	1,961	92	197	93	482	464	339	186	91	17
Some H.S.	8,641	18	1,996	1,865	2,677	1,201	568	278	37	1
H.S. Grad	21,988	-	163	2,333	6,910	5,985	4,252	2,006	323	14
Some College	16,461	-	1	272	3,690	6,015	4,447	1,755	273	6
College Grad	11,196	-	-	-	668	3,997	4,528	1,759	232	11
Post-Grad	7,043	-	-	-	191	2,250	2,969	1,390	232	11
Unknown	89	1	9	7	14	20	23	11	3	1
Marital Status										
Married	47,779	3	202	872	7,301	16,420	15,354	6,552	1,018	54
Unmarried	19,599	108	2,164	3,698	7,331	3,512	1,771	833	173	7
Unknown	1	-	-	-	-	-	1	-	-	-
Trimester Prenatal Care Began										
First	56,645	48	1,470	3,171	11,444	17,524	15,460	6,508	979	37
Second	8,324	41	674	1,103	2,486	1,898	1,286	665	150	20
Third	1,689	13	164	198	530	353	247	142	38	4
None	608	9	54	83	148	139	100	56	19	-
Unknown	113	-	4	15	24	18	33	14	5	-
Number of Prenatal Care Visits										
No Visits	608	9	54	83	148	139	100	56	19	-
1-4	1,932	12	165	219	611	407	285	186	44	3
5-9	11,825	41	661	1,214	3,075	3,005	2,485	1,120	205	17
10-12	29,652	24	960	1,857	6,143	9,001	7,831	3,336	475	24
13+	23,171	25	520	1,177	4,609	7,340	6,377	2,662	443	17
Unknown	191	-	6	20	46	40	48	25	5	-
Smoked During Pregnancy										
No	55,308	101	1,781	3,181	10,830	16,878	15,078	6,352	1,047	55
Yes	12,000	9	584	1,384	3,785	3,033	2,030	1,026	143	6
Unknown	71	1	1	5	17	21	18	7	1	-
Live Birth Order										
1	26,518	111	2,115	3,337	6,851	7,890	4,585	1,403	219	5
2	22,254	-	233	998	5,044	6,914	6,462	2,322	273	6
3	10,957	-	18	195	1,895	3,108	3,643	1,843	246	9
4	4,310	-	-	34	583	1,234	1,394	898	156	10
5+	3,334	-	-	6	258	785	1,042	916	296	31
Unknown	6	-	-	-	1	1	-	3	1	-
Plurality										
Single Birth	65,484	111	2,319	4,484	14,309	19,372	16,583	7,086	1,163	52
Multiple Birth	1,895	-	47	86	323	560	543	299	28	9
Prematurity										
Full-Term (37+ Weeks)	60,451	83	1,989	3,993	13,122	18,058	15,527	6,582	1,045	47
Premature (<37 Weeks)	6,910	28	377	575	1,508	1,867	1,594	803	144	14
Unknown	18	-	-	2	2	7	5	-	2	-
Attendant at Birth										
Physician, M.D.	61,292	93	2,041	4,068	13,120	18,219	15,798	6,821	1,073	54
Physician, D.O.	2,029	5	67	124	494	617	514	181	26	1
Cert. Nurse Midwife	3,095	11	240	349	816	826	592	219	41	1
Other Midwife	473	-	1	3	89	126	122	100	30	2
Other	472	2	17	26	110	133	97	63	21	3
Unknown	18	-	-	-	3	11	3	1	-	-

Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Notes: Included in the totals are 5 births for which age of mother was not reported. A dash (-) indicates that there were no births in that category.

Table A2. Percent of Births by Age of Mother and Selected Characteristics, Wisconsin 1998

	Total	<15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45+
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Education										
Elem. or Less	2.9	82.9	8.3	2.0	3.3	2.3	2.0	2.5	7.6	27.9
Some H.S.	12.8	16.2	84.4	40.8	18.3	6.0	3.3	3.8	3.1	1.6
H.S. Grad	32.6	-	6.9	51.1	47.2	30.0	24.8	27.2	27.1	23.0
Some College	24.4	-	0.0	6.0	25.2	30.2	26.0	23.8	22.9	9.8
College Grad	16.6	-	-	-	4.6	20.1	26.4	23.8	19.5	18.0
Post-Grad	10.5	-	-	-	1.3	11.3	17.3	18.8	19.5	18.0
Unknown	0.1	0.9	0.4	0.2	0.1	0.1	0.1	0.1	0.3	1.6
Marital Status										
Married	70.9	2.7	8.5	19.1	49.9	82.4	89.7	88.7	85.5	88.5
Unmarried	29.1	97.3	91.5	80.9	50.1	17.6	10.3	11.3	14.5	11.5
Unknown	0.0	-	-	-	-	-	0.0	-	-	-
Trimester Prenatal Care Began										
First	84.1	43.2	62.1	69.4	78.2	87.9	90.3	88.1	82.2	60.7
Second	12.4	36.9	28.5	24.1	17.0	9.5	7.5	9.0	12.6	32.8
Third	2.5	11.7	6.9	4.3	3.6	1.8	1.4	1.9	3.2	6.6
None	0.9	8.1	2.3	1.8	1.0	0.7	0.6	0.8	1.6	-
Unknown	0.2	-	0.2	0.3	0.2	0.1	0.2	0.2	0.4	-
Number of Prenatal Care Visits										
No Visits	0.9	8.1	2.3	1.8	1.0	0.7	0.6	0.8	1.6	-
1-4	2.9	10.8	7.0	4.8	4.2	2.0	1.7	2.5	3.7	4.9
5-9	17.5	36.9	27.9	26.6	21.0	15.1	14.5	15.2	17.2	27.9
10-12	44.0	21.6	40.6	40.6	42.0	45.2	45.7	45.2	39.9	39.3
13+	34.4	22.5	22.0	25.8	31.5	36.8	37.2	36.0	37.2	27.9
Unknown	0.3	-	0.3	0.4	0.3	0.2	0.3	0.3	0.4	-
Smoked During Pregnancy										
No	82.1	91.0	75.3	69.6	74.0	84.7	88.0	86.0	87.9	90.2
Yes	17.8	8.1	24.7	30.3	25.9	15.2	11.9	13.9	12.0	9.8
Unknown	0.1	0.9	0.0	0.1	0.1	0.1	0.1	0.1	0.1	-
Live Birth Order										
1	39.4	100.0	89.4	73.0	46.8	39.6	26.8	19.0	18.4	8.2
2	33.0	-	9.8	21.8	34.5	34.7	37.7	31.4	22.9	9.8
3	16.3	-	0.8	4.3	13.0	15.6	21.3	25.0	20.7	14.8
4	6.4	-	-	0.7	4.0	6.2	8.1	12.2	13.1	16.4
5+	4.9	-	-	0.1	1.8	3.9	6.1	12.4	24.9	50.8
Unknown	0.0	-	-	-	0.0	0.0	-	0.0	0.1	-
Plurality										
Multiple Birth	97.2	100.0	98.0	98.1	97.8	97.2	96.8	96.0	97.6	85.2
Multiple Birth	2.8	-	2.0	1.9	2.2	2.8	3.2	4.0	2.4	14.8
Prematurity										
Full Term (37+ Weeks)	89.7	74.8	84.1	87.4	89.7	90.6	90.7	89.1	87.7	77.0
Premature (<37 Weeks)	10.3	25.2	15.9	12.6	10.3	9.4	9.3	10.9	12.1	23.0
Unknown	0.0	-	-	0.0	0.0	0.0	0.0	-	0.2	-
Attendant at Birth										
Physician, M.D.	91.0	83.8	86.3	89.0	89.7	91.4	92.2	92.4	90.1	88.5
Physician, D.O.	3.0	4.5	2.8	2.7	3.4	3.1	3.0	2.5	2.2	1.6
Cert. Nurse Midwife	4.6	9.9	10.1	7.6	5.6	4.1	3.5	3.0	3.4	1.6
Other Midwife	0.7	-	0.0	0.1	0.6	0.6	0.7	1.4	2.5	3.3
Other	0.7	1.8	0.7	0.6	0.8	0.7	0.6	0.9	1.8	4.9
Unknown	0.0	-	-	-	0.0	0.1	0.0	0.0	-	-

Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Notes: Included in the totals are 5 births for which age of mother was not reported. A dash (-) indicates that there were no births in that category.

Table B1. Number of Births by Race/Ethnicity of Mother and Selected Characteristics, Wisconsin 1998

	Total	White	Black	American Indian	Hispanic	Laotian/ Hmong	Other
Total	67,379	54,598	6,480	829	3,633	1,037	795
Age of Mother							
<15	111	30	60	2	11	8	-
15-17	2,366	1,171	732	72	272	95	24
18-19	4,570	2,835	1,040	103	425	132	33
20-24	14,632	10,518	2,196	281	1,225	297	113
25-29	19,932	17,010	1,282	190	965	225	259
30-34	17,126	15,389	740	118	473	156	249
35-39	7,385	6,570	373	51	218	78	94
40-44	1,191	1,028	55	11	42	35	20
45+	61	43	2	-	2	11	3
Unknown	5	4	-	1	-	-	-
Education of Mother							
Elem. or Less	1,961	707	185	18	678	352	21
Some H.S.	8,641	4,476	2,496	259	1,136	194	78
H.S. Grad	21,988	17,856	2,294	322	1,049	300	167
Some College	16,461	14,413	1,141	170	484	123	128
College Grad	11,196	10,544	213	32	173	34	198
Post-Grad	7,043	6,553	144	26	103	18	199
Unknown	89	49	7	2	10	16	4
Marital Status							
Married	47,779	42,846	1,108	272	1,974	874	701
Unmarried	19,599	11,751	5,372	557	1,659	163	94
Unknown	1	1	-	-	-	-	-
Trimester Prenatal Care Began							
First	56,645	47,920	4,367	584	2,608	500	660
Second	8,324	5,264	1,541	177	771	460	111
Third	1,689	989	373	47	193	65	21
None	608	330	194	17	55	9	3
Unknown	113	95	5	4	6	3	-
Number of Prenatal Care Visits							
No Visits	608	330	194	17	55	9	3
1-4	1,932	994	543	70	201	93	30
5-9	11,825	8,362	1,709	222	905	475	151
10-12	29,652	24,324	2,749	309	1,548	338	382
13+	23,171	20,430	1,273	205	912	119	229
Unknown	191	158	12	6	12	3	-
Smoked During Pregnancy							
No	55,308	44,699	5,036	492	3,306	1,018	753
Yes	12,000	9,841	1,439	336	325	16	41
Unknown	71	58	5	1	2	3	1
Live Birth Order							
1	26,518	22,015	2,181	305	1,436	206	372
2	22,254	18,676	1,812	235	1,071	188	269
3	10,957	8,783	1,142	152	620	152	108
4	4,310	3,196	601	74	295	113	31
5+	3,334	1,923	743	63	211	378	15
Unknown	6	5	1	-	-	-	-

(Continued)

Table B1. Number of Births by Race/Ethnicity of Mother and Selected Characteristics, Wisconsin 1998

	Total	White	Black	American Indian	Hispanic	Laotian/ Hmong	Other
Total	67,379	54,598	6,480	829	3,633	1,037	795
Prematurity							
Full Term (37+ Weeks)	60,451	49,512	5,364	742	3,219	888	720
Premature (<37 Weeks)	6,910	5,070	1,114	87	414	149	75
Unknown	18	16	2	-	-	-	-
Computed Estimate of Gestational Age (Weeks)							
<37	6,651	4,892	1,063	81	397	145	72
37-39	28,366	23,151	2,660	322	1,516	340	374
40	14,712	12,420	1,057	169	734	162	170
41	8,413	7,007	634	108	434	136	93
42+	7,220	5,585	828	107	439	193	67
Unknown	2,017	1,543	238	42	113	61	19

Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Notes: Included in the totals are 7 births for which race/ethnicity of mother was not reported. A dash (-) indicates that there were no births in that category.
 "Premature" means less than 37 weeks of gestation. Since 1983, gestational age has been calculated as the difference between the date of last normal menses and the date of delivery. Where date of last normal menses is unknown, clinical estimate of gestation is substituted.
 The "computed estimate of gestational age" is calculated as the difference between the date of last normal menses and date of birth.

Table B2. Percent of Births by Race/Ethnicity of Mother and Selected Characteristics, Wisconsin 1998

	Total	White	Black	Amer. Indian	Hispanic	Laotian/ Hmong	Other
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Age of Mother							
<15	0.2	0.1	0.9	0.2	0.3	0.8	-
15-17	3.5	2.1	11.3	8.7	7.5	9.2	3.0
18-19	6.8	5.2	16.0	12.4	11.7	12.7	4.2
20-24	21.7	19.3	33.9	33.9	33.7	28.6	14.2
25-29	29.6	31.2	19.8	22.9	26.6	21.7	32.6
30-34	25.4	28.2	11.4	14.2	13.0	15.0	31.3
35-39	11.0	12.0	5.8	6.2	6.0	7.5	11.8
40-44	1.8	1.9	0.8	1.3	1.2	3.4	2.5
45+	0.1	0.1	0.0	-	0.1	1.1	0.4
Unknown	0.0	0.0	-	0.1	-	-	-
Education of Mother							
Elem. or Less	2.9	1.3	2.9	2.2	18.7	33.9	2.6
Some H.S.	12.8	8.2	38.5	31.2	31.3	18.7	9.8
H.S. Grad	32.6	32.7	35.4	38.8	28.9	28.9	21.0
Some College	24.4	26.4	17.6	20.5	13.3	11.9	16.1
College Grad	16.6	19.3	3.3	3.9	4.8	3.3	24.9
Post-Grad	10.5	12.0	2.2	3.1	2.8	1.7	25.0
Unknown	0.1	0.1	0.1	0.2	0.3	1.5	0.5
Marital Status							
Married	70.9	78.5	17.1	32.8	54.3	84.3	88.2
Unmarried	29.1	21.5	82.9	67.2	45.7	15.7	11.8
Unknown	0.0	0.0	-	-	-	-	-
Trimester Prenatal Care Began							
First	84.1	87.8	67.4	70.4	71.8	48.2	83.0
Second	12.4	9.6	23.8	21.4	21.2	44.4	14.0
Third	2.5	1.8	5.8	5.7	5.3	6.3	2.6
None	0.9	0.6	3.0	2.1	1.5	0.9	0.4
Unknown	0.2	0.2	0.1	0.5	0.2	0.3	-
Number of Prenatal Care Visits							
No Visits	0.9	0.6	3.0	2.1	1.5	0.9	0.4
1-4	2.9	1.8	8.4	8.4	5.5	9.0	3.8
5-9	17.5	15.3	26.4	26.8	24.9	45.8	19.0
10-12	44.0	44.6	42.4	37.3	42.6	32.6	48.1
13+	34.4	37.4	19.6	24.7	25.1	11.5	28.8
Unknown	0.3	0.3	0.2	0.7	0.3	0.3	-
Smoked During Pregnancy							
No	82.1	81.9	77.7	59.3	91.0	98.2	94.7
Yes	17.8	18.0	22.2	40.5	8.9	1.5	5.2
Unknown	0.1	0.1	0.1	0.1	0.1	0.3	0.1
Live Birth Order							
1	39.4	40.3	33.7	36.8	39.5	19.9	46.8
2	33.0	34.2	28.0	28.3	29.5	18.1	33.8
3	16.3	16.1	17.6	18.3	17.1	14.7	13.6
4	6.4	5.9	9.3	8.9	8.1	10.9	3.9
5+	4.9	3.5	11.5	7.6	5.8	36.5	1.9
Unknown	0.0	0.0	0.0	-	-	-	-

(Continued)

Table B2. Percent of Births by Race/Ethnicity of Mother and Selected Characteristics, Wisconsin 1998

	Total	White	Black	American Indian	Hispanic	Laotian/Hmong	Other
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Prematurity							
Full Term (37+ Weeks)	89.7	90.7	82.8	89.5	88.6	85.6	90.6
Premature (<37 Weeks)	10.3	9.3	17.2	10.5	11.4	14.4	9.4
Unknown	0.0	0.0	0.0	-	-	-	-
Computed Estimate of Gestational Age (Weeks)							
<37	9.9	9.0	16.4	9.8	10.9	14.0	9.1
37-39	42.1	42.4	41.0	38.8	41.7	32.8	47.0
40	21.8	22.7	16.3	20.4	20.2	15.6	21.4
41	12.5	12.8	9.8	13.0	11.9	13.1	11.7
42+	10.7	10.2	12.8	12.9	12.1	18.6	8.4
Unknown	3.0	2.8	3.7	5.1	3.1	5.9	2.4

Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Notes: Included in the totals are 7 births for which race/ethnicity of mother was not reported. A dash (-) indicates that there were no births in that category.
 "Premature" means less than 37 weeks of gestation. Since 1983, gestational age has been calculated as the difference between the date of last normal menses and the date of delivery. Where date of last normal menses is unknown, clinical estimate of gestation is substituted.
 The "computed estimate of gestational age" is calculated as the difference between the date of last normal menses and date of birth.

Table C1. Number and Percent of Births by Birthweight and Selected Characteristics, Wisconsin 1998

	Total Births	<1,500 Grams		1,500-2,499 Grams		2,500+ Grams		Total <2,500 Grams	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Total	67,379	828	1.2	3,584	5.3	62,960	93.4	4,412	6.5
Plurality									
Single Birth	65,484	619	0.9	2,808	4.3	62,050	94.8	3,427	5.2
Multiple Birth	1,895	209	11.0	776	40.9	910	48.0	985	52.0
Prematurity									
Full Term (37+ Weeks)	60,451	26	0.0	1,439	2.4	58,984	97.6	1,465	2.4
Premature (<37 Weeks)	6,910	800	11.6	2,143	31.0	3,962	57.3	2,943	42.6
Unknown	18	2	11.1	2	11.1	14	77.8	4	22.2
Age of Mother									
<15	111	4	3.6	15	13.5	92	82.9	19	17.1
15-17	2,366	65	2.7	205	8.7	2,096	88.6	270	11.4
18-19	4,570	84	1.8	301	6.6	4,183	91.5	385	8.4
20-24	14,632	202	1.4	834	5.7	13,595	92.9	1,036	7.1
25-29	19,932	207	1.0	921	4.6	18,803	94.3	1,128	5.7
30-34	17,126	162	0.9	808	4.7	16,154	94.3	970	5.7
35-39	7,385	86	1.2	432	5.8	6,866	93.0	518	7.0
40-44	1,191	14	1.2	64	5.4	1,113	93.5	78	6.5
45+	61	4	6.6	4	6.6	53	86.9	8	13.1
Unknown	5	-	-	-	-	5	100.0	-	-
Race/Ethnicity of Mother									
White	54,598	538	1.0	2,544	4.7	51,511	94.3	3,082	5.6
Black	6,480	202	3.1	690	10.6	5,587	86.2	892	13.8
Amer. Indian	829	9	1.1	52	6.3	768	92.6	61	7.4
Hispanic	3,633	59	1.6	182	5.0	3,391	93.3	241	6.6
Laotian/Hmong	1,037	13	1.3	69	6.7	955	92.1	82	7.9
Other	795	7	0.9	47	5.9	741	93.2	54	6.8
Unknown	7	-	-	-	-	7	100.0	-	-
Education of Mother									
Elem. or Less	1,961	30	1.5	106	5.4	1,825	93.1	136	6.9
Some H.S.	8,641	166	1.9	743	8.6	7,731	89.5	909	10.5
H.S. Grad	21,988	320	1.5	1,214	5.5	20,453	93.0	1,534	7.0
Some College	16,461	168	1.0	792	4.8	15,500	94.2	960	5.8
College Grad	11,196	77	0.7	459	4.1	10,657	95.2	536	4.8
Post-Grad	7,043	60	0.9	261	3.7	6,722	95.4	321	4.6
Unknown	89	7	7.9	9	10.1	72	80.9	16	18.0
Marital Status									
Married	47,779	418	0.9	2,078	4.3	45,280	94.8	2,496	5.2
Unmarried	19,599	410	2.1	1,506	7.7	17,679	90.2	1,916	9.8
Unknown	1	-	-	-	-	1	100.0	-	-

(Continued)

Table C1. Number and Percent of Births by Birthweight and Selected Characteristics, Wisconsin 1998

	Total Births	<1,500 Grams		1,500-2,499 Grams		2,500+ Grams		Total <2,500 Grams	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Trimester Prenatal Care Began									
First	56,645	637	1.1	2,840	5.0	53,165	93.9	3,477	6.1
Second	8,324	111	1.3	549	6.6	7,663	92.1	660	7.9
Third	1,689	6	0.4	107	6.3	1,575	93.3	113	6.7
None	608	59	9.7	74	12.2	474	78.0	133	21.9
Unknown	113	15	13.3	14	12.4	83	73.5	29	25.7
Number of Prenatal Care Visits									
No Visits	608	59	9.7	74	12.2	474	78.0	133	21.9
1-4	1,932	162	8.4	228	11.8	1,540	79.7	390	20.2
5-9	11,825	330	2.8	1,041	8.8	10,453	88.4	1,371	11.6
10-12	29,652	158	0.5	1,263	4.3	28,229	95.2	1,421	4.8
13+	23,171	100	0.4	947	4.1	22,124	95.5	1,047	4.5
Unknown	191	19	9.9	31	16.2	140	73.3	50	26.2
Smoked During Pregnancy									
No	55,308	615	1.1	2,530	4.6	52,159	94.3	3,145	5.7
Yes	12,000	201	1.7	1,047	8.7	10,749	89.6	1,248	10.4
Unknown	71	12	16.9	7	9.9	52	73.2	19	26.8
Type of Delivery									
Vaginal After									
Previous C-Section	1,921	9	0.5	73	3.8	1,839	95.7	82	4.3
Forceps	1,430	2	0.1	54	3.8	1,374	96.1	56	3.9
Other Vaginal	53,214	426	0.8	2,407	4.5	50,377	94.7	2,833	5.3
Primary C-Section	7,047	338	4.8	861	12.2	5,845	82.9	1,199	17.0
Repeat C-Section	3,767	53	1.4	189	5.0	3,525	93.6	242	6.4
Live Birth Order									
1	26,518	365	1.4	1,555	5.9	24,596	92.8	1,920	7.2
2	22,254	238	1.1	975	4.4	21,038	94.5	1,213	5.5
3	10,957	121	1.1	536	4.9	10,299	94.0	657	6.0
4	4,310	55	1.3	250	5.8	4,004	92.9	305	7.1
5+	3,334	49	1.5	268	8.0	3,017	90.5	317	9.5
Unknown	6	-	-	-	-	6	100.0	-	-
Congenital Anomalies									
No	66,391	793	1.2	3,451	5.2	62,142	93.6	4,244	6.4
Yes	988	35	3.5	133	13.5	818	82.8	168	17.0

Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Notes: Included in the totals are 7 births for which birthweight was not reported. Infants weighing less than 2,500 grams (or 5.5 pounds) at birth are considered low birthweight. Infants weighing less than 1,500 grams (or 3.3 pounds) at birth are considered very low birthweight. A dash (-) indicates that there were no births in that category.

Table C2. Number and Percent of Births by Estimated Gestational Age and Birthweight, Wisconsin 1998

Birthweight	Total	Estimated Gestational Age (in Weeks)									Unk.
		17-19	20-27	28-31	32-35	36	37-39	40	41	42+	
Number											
Total	67,379	25	431	726	3,061	2,408	28,366	14,712	8,413	7,220	2,017
<500 Grams	128	21	85	6	2	-	-	-	-	1	13
500-999 Grams	311	4	192	74	12	1	1	-	-	1	26
1,000-1,499 Gms	389	-	48	203	90	2	16	1	1	5	23
1,500-1,999 Gms	870	-	10	168	426	70	110	12	10	15	49
2,000-2,499 Gms	2,714	-	13	55	898	400	916	130	79	124	99
2,500-2,999 Gms	9,650	-	25	75	772	885	4,809	1,284	665	800	335
3,000-3,499 Gms	24,038	-	32	88	543	729	11,607	5,081	2,693	2,535	730
3,500-3,999 Gms	20,929	-	19	42	248	252	8,255	5,757	3,283	2,514	559
4,000-4,499 Gms	6,975	-	2	12	56	57	2,274	2,070	1,350	1,009	145
4,500+ Grams	1,368	-	4	2	12	12	378	375	332	216	37
Unknown	7	-	1	1	2	-	-	2	-	-	1

<i>Percent</i>											
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
<500 Grams	0.2	84.0	19.7	0.8	0.1	-	-	-	-	0.0	0.6
500-999 Grams	0.5	16.0	44.5	10.2	0.4	0.0	0.0	-	-	0.0	1.3
1,000-1,499 Gms	0.6	-	11.1	28.0	2.9	0.1	0.1	0.0	0.0	0.1	1.1
1,500-1,999 Gms	1.3	-	2.3	23.1	13.9	2.9	0.4	0.1	0.1	0.2	2.4
2,000-2,499 Gms	4.0	-	3.0	7.6	29.3	16.6	3.2	0.9	0.9	1.7	4.9
2,500-2,999 Gms	14.3	-	5.8	10.3	25.2	36.8	17.0	8.7	7.9	11.1	16.6
3,000-3,499 Gms	35.7	-	7.4	12.1	17.7	30.3	40.9	34.5	32.0	35.1	36.2
3,500-3,999 Gms	31.1	-	4.4	5.8	8.1	10.5	29.1	39.1	39.0	34.8	27.7
4,000-4,499 Gms	10.4	-	0.5	1.7	1.8	2.4	8.0	14.1	16.0	14.0	7.2
4,500+ Grams	2.0	-	0.9	0.3	0.4	0.5	1.3	2.5	3.9	3.0	1.8
Unknown	0.0	-	0.2	0.1	0.1	-	-	0.0	-	-	0.0

Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Table C3. Number and Percent of Births by Race/Ethnicity of Mother and Birthweight, Wisconsin 1998

Birthweight	Total	White	Black	American Indian	Hispanic	Laotian/ Hmong	Other
<i>Number</i>							
Total	67,379	54,598	6,480	829	3,633	1,037	795
<500 Grams	128	63	48	-	15	1	1
500-999 Grams	311	199	81	4	20	6	1
1,000-1,499 Gms	389	276	73	5	24	6	5
1,500-1,999 Gms	870	640	151	10	43	15	11
2,000-2,499 Gms	2,714	1,904	539	42	139	54	36
2,500-2,999 Gms	9,650	7,011	1,587	91	591	216	152
3,000-3,499 Gms	24,038	19,084	2,480	275	1,408	462	327
3,500-3,999 Gms	20,920	17,958	1,207	267	1,055	235	205
4,000-4,499 Gms	6,975	6,235	271	99	282	36	51
4,500+ Grams	1,368	1,223	42	36	55	6	6
Unknown	7	5	1	-	1	-	-

<i>Percent</i>							
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0
<500 Grams	0.2	0.1	0.7	-	0.4	0.1	0.1
500-999 Grams	0.5	0.4	1.3	0.5	0.6	0.6	0.1
1,000-1,499 Gms	0.6	0.5	1.1	0.6	0.7	0.6	0.6
1,500-1,999 Gms	1.3	1.2	2.3	1.2	1.2	1.4	1.4
2,000-2,499 Gms	4.0	3.5	8.3	5.1	3.8	5.2	4.5
2,500-2,999 Gms	14.3	12.8	24.5	11.0	16.3	20.8	19.1
3,000-3,499 Gms	35.7	35.0	38.3	33.2	38.8	44.6	41.1
3,500-3,999 Gms	31.0	32.9	18.6	32.2	29.0	22.7	25.8
4,000-4,499 Gms	10.4	11.4	4.2	11.9	7.8	3.5	6.4
4,500+ Grams	2.0	2.2	0.6	4.3	1.5	0.6	0.8
Unknown	0.0	0.0	0.0	-	0.0	-	-

Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Notes: Included in the totals are 7 births for which race/ethnicity of mother was not reported. A dash (-) indicates that there were no births in that category.

Table D. Fetal, Neonatal, and Infant Deaths by Selected Characteristics, Wisconsin 1998

	Fetal Deaths (Gestation >20 weeks)		Neonatal Deaths (Age <28 days)		Infant Deaths (Age <1 year)	
	Number	Rate	Number	Rate	Number	Rate
Total	401	5.9	343	5.1	488	7.2
Sex of Infant						
Male	220	6.4	189	5.5	266	7.8
Female	179	5.4	153	4.6	221	6.7
Unknown	2	-	1	-	1	-
Birthweight						
1,499 Grams or Less	225	213.7	221	266.9	232	280.2
1,500-2,499 Grams	75	20.5	45	12.6	66	18.4
2,500+ Grams	99	1.6	74	1.2	186	3.0
Unknown	2	-	3	-	4	-
White Non-Hispanic	286	5.2	208	3.8	308	5.6
1,499 Grams or Less	152	220.3	122	226.8	127	236.1
1,500-2,499 Grams	54	20.8	27	10.6	45	17.7
2,500+ Grams	78	1.5	57	1.1	133	2.6
Unknown	2	-	2	-	3	-
Black Non-Hispanic	76	11.6	85	13.1	116	17.9
1,499 Grams or Less	49	195.2	65	321.8	70	346.5
1,500-2,499 Grams	13	-	9	-	12	-
2,500+ Grams	14	-	10	-	33	5.9
Unknown	-	-	1	-	1	-
Computed Estimate of Gestational Age (Weeks)						
Less than 37	277	40.0	132	19.8	146	22.0
37-39	51	1.8	25	0.9	66	2.3
40-41	26	1.1	19	-	43	1.9
42+	7	-	5	-	14	-
Unknown	40	19.4	162	80.3	219	108.6
Marital Status						
Married	237	4.9	174	3.6	250	5.2
Unmarried	164	8.3	169	8.6	238	12.1
Unknown	-	-	-	-	-	-
Education of Mother						
Elementary or Less	22	11.1	14	-	22	11.2
Some High School	66	7.6	70	8.1	106	12.3
High School Graduate	128	5.8	136	6.2	186	8.5
Some College	87	5.3	61	3.7	97	5.9
College Graduate	50	4.4	38	3.4	47	4.2
Post Graduate	20	2.8	20	2.8	25	3.6
Unknown	28	23.9	4	-	5	-

(Continued)

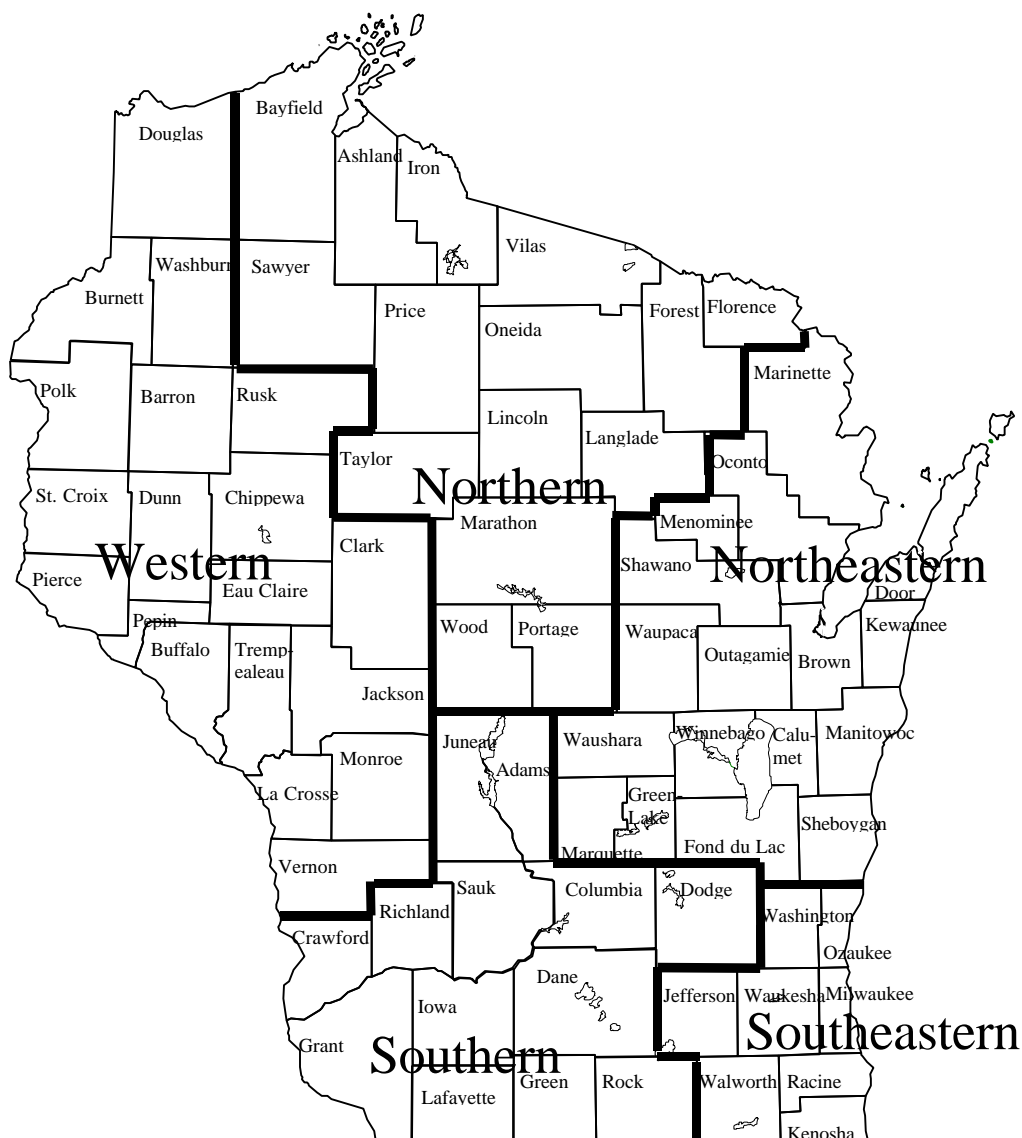
Table D. Fetal, Neonatal, and Infant Deaths by Selected Characteristics, Wisconsin 1998

	Fetal Deaths (Gestation >20 weeks)		Neonatal Deaths (Age <28 days)		Infant Deaths (Age <1 year)	
	Number	Rate	Number	Rate	Number	Rate
Age of Mother						
<15	1	-	2	-	4	-
15-17	19	-	23	9.7	39	16.5
18-19	34	7.4	37	8.1	55	12.0
20-24	92	6.2	95	6.5	132	9.0
25-29	92	4.6	77	3.9	110	5.5
30-34	95	5.5	67	3.9	94	5.5
35-39	51	6.9	37	5.0	47	6.4
40+	17	-	5	-	6	-
Unknown	-	-	-	-	1	-
Race of Mother						
White	286	5.2	208	3.8	308	5.6
Black	76	11.6	85	13.1	116	17.9
Amer. Indian	8	-	3	-	9	-
Hispanic	22	6.0	37	10.2	40	11.0
Laotian/Hmong	2	-	7	-	9	-
Other	6	-	3	-	5	-
Unknown	1	-	-	-	1	-
Trimester Prenatal Care Began						
First	309	5.4	252	4.4	356	6.3
Second	50	6.0	46	5.5	75	9.0
Third	9	-	8	-	15	-
None	27	42.5	32	52.6	37	60.9
Unknown	6	-	5	-	5	-
Number of Prenatal Care Visits						
No Visits	26	41.0	32	52.6	37	60.9
1-4 Visits	91	45.0	79	40.9	90	46.6
5-9 Visits	158	13.2	116	9.8	150	12.7
10-12 Visits	80	2.7	62	2.1	119	4.0
13+ Visits	37	1.6	48	2.1	86	3.7
Unknown	9	-	6	-	6	-
Plurality						
Single Birth	367	5.6	278	4.2	415	6.3
Multiple Birth	33	17.1	65	34.3	73	38.5
Unknown	1	-	-	-	-	-
Smoked During Pregnancy						
No	301	5.4	262	4.7	353	6.4
Yes	97	8.0	77	6.4	130	10.8
Unknown	3	-	4	-	5	-

Source: Fetal death and matched birth-death files, Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Notes: The fetal death rate is based on the number of fetal deaths per 1,000 live births and reported fetal deaths.
The neonatal death rate is based on the number of neonatal deaths per 1,000 live births.
The infant death rate is based on the number of infant deaths per 1,000 live births.
Rates based on fewer than 20 deaths are omitted because they are subject to large random fluctuations.

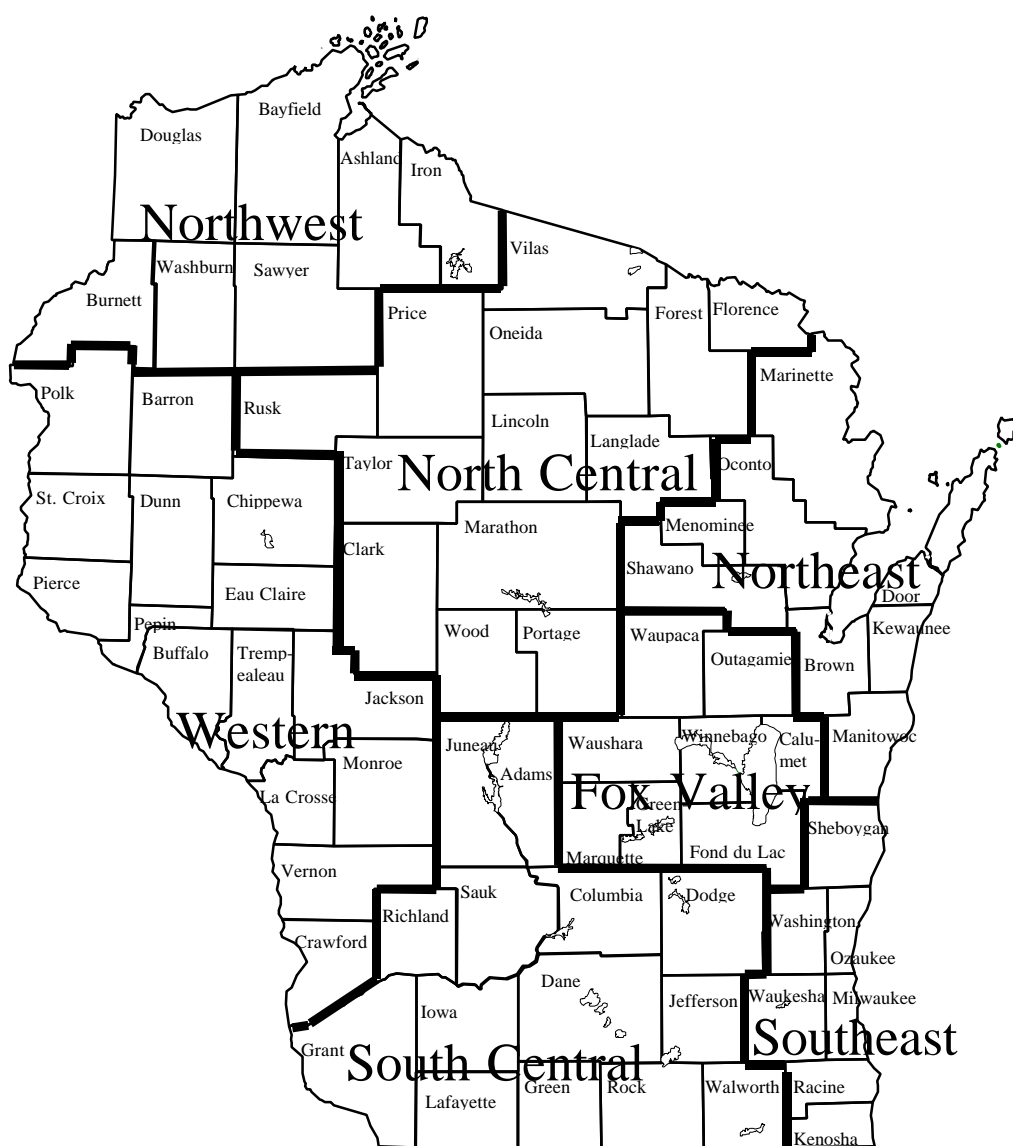
Map 1. Wisconsin Department of Health and Family Services Regions, 1998



Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

Note: As of July 1, 1996, new Department of Health and Family Services regions were established. Comparisons with regional data in previous publications may therefore be affected.

Map 2. Wisconsin Perinatal Regions, 1998



Source: Bureau of Health Information, Division of Health Care Financing, Department of Health and Family Services.

DEPARTMENT OF HEALTH & FAMILY SERVICES
Division of Health
DOH-5103B (Rev. 10/96)

STATE OF WISCONSIN
Chapter 69, Wis. Stat.

BIRTH CERTIFICATE WORKSHEET

The information on this worksheet (except signatures and informant entries) must be typed, if possible. If a typewriter is not available, the information must be printed neatly **IN BLACK INK** including informant information. Worksheets that are illegible will be returned for replacement. Item numbers reflect data entry order and are not always in consecutive order on this form.

INFORMANT: READ THE PAGE TO THE LEFT AND COMPLETE THE SHADED AREAS ON BOTH SIDES OF THE FORM.

PART I INFORMANT LEGAL INFORMATION			
Mother	16. Mother's Current Name		First Middle Last
	17. Mother's Birth Name (Maiden Name)		First Middle Last
	18. Mother's Date of Birth (Mo./Day/Yr.) (spell out month)		19. Mother's State of Birth (if not in the U.S.A., name the country)
	* For items 20-23, enter the mother's legal residence (the physical location where the mother lives). Name the city, village or township (Minor Civil Division) where the home is located. This is not always the same as the mailing address. Do not name an unincorporated place.		
Husband	20. Residence State (if not in the U.S.A., name the country)		21. Residence County
	22. Residence Inside City, Village, Township of:		23. Check One: <input type="checkbox"/> City <input type="checkbox"/> Village <input type="checkbox"/> Township
	Husband Information: Read the information on the page to the left labeled "E. Husband/Father Information on the Birth Certificate" before entering any of the items pertaining to the husband on the worksheet and before completing item 35, "Is Mother Married?"		
	24. Husband's Name		First Middle Last
25. Husband's Date of Birth (Mo./Day/Yr.) (spell out month)		26. Husband's State of Birth (if not in U.S.A., name the country)	
32. Informant Name		33. Relation to Child (do not enter "father" if informant is not listed as husband in item 24)	
CHILD'S NAME (Read the information to the left labeled "D. Naming Your Child" before completing this section.) Print the name as you want it to appear on the legal birth record.			
First		Middle	Last Title (e.g. Jr., II, III, etc.)
PART II INFORMANT CONFIDENTIAL LEGAL INFORMATION (This information Does Not Appear on Certified Copies of the Birth Certificate)			
34a. Mother's Mailing Address (Street or RFD, City / Village / Post Office, State, ZIP) The Birth Notification form will be sent to this address. If the infant is being placed for adoption or this possibility is under consideration, check the box and do not provide an address. <input type="checkbox"/> Child may/will be placed for adoption			
34b. Social Security Number Requested by Parents? Read the information on the page to the left labeled, "G. Social Security Number Requested" before answering this question. The infant must be named and the mother's mailing address must be complete if the box is checked "Yes". <input type="checkbox"/> YES <input type="checkbox"/> NO		34c. Mother's Social Security Number	
		34d. Husband's Social Security Number	
35. Is Mother Married (at any time between conception and birth)? Read the information labeled "E. Husband/Father Information" on the page to the left before answering this question. <input type="checkbox"/> YES <input type="checkbox"/> NO			
*Parent/Informant Signature and Date. I certify that the information I have provided in the shaded areas of both sides of this form is correct to the best of my knowledge and belief.			
Signature		Date Signed	
*Only the mother and/or the husband named in item 24 may name the child and/or authorize a request for a social security number for the child. If the informant is someone other than the mother or husband, the mother or husband must co-sign this document.			
PART I RECORD FILER LEGAL INFORMATION (RECORD FILER: TYPE OR PRINT CHILD'S NAME AND RE-VERIFY WITH NAME GIVEN ABOVE BY INFORMANT)			
1. Child's Name: First		Middle	Last Title (e.g. Jr., II, III, etc.)
2. Sex <input type="checkbox"/> Male <input type="checkbox"/> Female	3. Date of Birth (Month/Day/Year) (spell out month)		4. Hour (specify hour and minute and check appropriate box) <input type="checkbox"/> AM <input type="checkbox"/> PM <input type="checkbox"/> Noon <input type="checkbox"/> Midnight
5a. Birth Facility <input type="checkbox"/> Clinic/Dr. Office <input type="checkbox"/> Residence <input type="checkbox"/> Hospital <input type="checkbox"/> Birth Center <input type="checkbox"/> Other		5b. If at or en route to a hospital, give name	
5c. If not at or en route to a hospital, give street address where birth occurred (where placenta was delivered)			
6. County of Birth:		7. Birth Occurred Inside City, Village, Township of:	8. Check One: <input type="checkbox"/> City <input type="checkbox"/> Village <input type="checkbox"/> Township
9a. Attendant Name		9b. Wis. License #	10. Title 1. <input type="checkbox"/> M.D. 2. <input type="checkbox"/> D.O. 3. <input type="checkbox"/> C.N.M. 4. <input type="checkbox"/> Other MDWF 5. <input type="checkbox"/> Other
11. Name of Filing Party [s. 69.14(1)(c)] and Title			12. Date Completed (Month/Day/Year) (spell out month)
13. Mailing Address of Filing Party <input type="checkbox"/> Same as Hospital. If not at a hospital, give complete mailing address			
27. Birthweight (original unconverted) grams OR lbs. oz.		28. Crown-Heel Length (original unconverted) centimeters OR in.	
29. If infant Died (Mo./Day/Yr.) (spell out month) <input type="checkbox"/> Died		30. Plurality (single, twin, triplet, etc.)	
31. If Not Single Birth: (born first, second, third, etc.)			

PART III CONFIDENTIAL MEDICAL/STATISTICAL INFORMATION

The information from this page is only available to the mother and to the staff of some public health and research programs. They must treat this information as confidential material. The information is collected throughout the nation for health and population research and it is used to promote healthy births and to identify present and future health needs and populations of certain groups or areas. This information does not appear on the birth certificate.

RACE - Enter the race of the mother and husband (if listed in item 24) on the appropriate line. Enter both races if of "mixed" race. Do not enter "Hispanic" here. If "Native American", enter "American Indian". If Asian or Southeast Asian, specify the national origin such as "Hmong", "Cambodian", "Chinese", "Japanese", etc.

HISPANIC ORIGIN - "Hispanic" refers to people whose origins are from Spain, Mexico, or the Spanish-speaking countries of Central or South America. If you are of Hispanic origin, specify the national origin. If not of Hispanic origin, check the "No" box.

EDUCATION - Enter the number of years of schooling completed. Do not count partial years (e.g. if the freshman year of college is not completed, enter "12" under "Elementary/Secondary" column). Do not include years in technical or specialty schools unless college transferable academic credits were received.

EMPLOYMENT ONE YEAR AGO - Enter the occupation and type of firm or agency worked at one year prior to this birth. Be as specific as possible in these items (See examples below). Avoid the use of a firm or agency name. Instead, describe the type of business in which the firm or agency is involved. Do not use abbreviations for job titles.

Examples:

OCCUPATION	TYPE OF FIRM OR AGENCY	OCCUPATION	TYPE OF FIRM OR AGENCY
Enter: Clerk Typist Not: Office Worker	City Health Department City of Madison	Enter: Disabled Not: None	None None
Enter: Math Teacher Not: Teacher	High School Public School	Enter: Unemployed Not: Never Worked	None None
Enter: Auto Mechanic Not: Mechanic	Self-Employed Own	Enter: Student Not: None	High School None
Enter: Sales Clerk Not: Clerk	Hardware Store Smith's Store	Enter: Homemaker Not: None	Own Home None

Mother	36. RACE White, Black Amer. Ind., etc.	37. HISPANIC ORIGIN Specify Mexican, Puerto Rican, Cuban, etc.	38. EDUCATION Highest Grade Completed Elem./Second College (1-4 of 5+)	39. EMPLOYMENT ONE YEAR AGO Occupation	40. PREGNANCY HISTORY (Obtain from informant if necessary)
	36a	37a	38a	39a	40a
Husband	36b	37b	38b	39b	40b
	36b	37b	38b	39b	40b
41. CLINICAL ESTIMATE OF GESTATION (Weeks)		42. DATE LAST NORMAL MENSTRUATION BEGAN Month Day Year	43. MONTH OF PREGNANCY PRENATAL CARE BEGAN (Month 1-9; Not Trimester)	44. TOTAL NUMBER OF PRENATAL VISITS	45. APGAR SCORE 1 minute 5 minute
41a		42a	43a	44a	45a
41b		42b	43b	44b	45b
46. MOTHER TRANSFERRED PRIOR TO DELIVERY?		47. INFANT TRANSFERRED TO INTENSIVE CARE OR MOTHER HOSPITAL		If yes, Name facility and city: Date of Transfer (Month Day Year)	
46a		47a			
CIGARETTE USE AND ALCOHOL USE: If the mother smoked cigarettes or consumed alcohol at any time during the pregnancy, check the "Yes" box for the appropriate item. Enter the average number of cigarettes smoked per day and/or the average number of alcoholic drinks consumed per week. If the average is less than "1", enter "0" (zero).					
If the mother did not smoke cigarettes or drink alcohol at any time during the pregnancy, check "NO" for the appropriate item.					
48a. Cigarette use during pregnancy?		48b. Alcohol Use During Pregnancy?		48c. Weight Gain/Loss During Pregnancy.	
48a		48b		48c	

49. MEDICAL HISTORY FOR THIS PREGNANCY

- 01A ☐ Anemia (Hct. < 30/Hgb. < 10)
02B ☐ Cardiac disease
03C ☐ Acute or chronic lung disease
04D ☐ Pre-existing diabetes
05E ☐ Gestational diabetes
06F ☐ Genital herpes
07G ☐ Other STD (chlamydia, GC)
08H ☐ Hydramnios/Oligohydramnios
09I ☐ Hemoglobinopathy
10J ☐ Hypertension, chronic
11K ☐ Hypertension, pregnancy assoc
12L ☐ Eclampsia
13M ☐ Incompetent cervix
14N ☐ Previous infant 4000+ grams
15O ☐ Previous preterm or small-for gestational-age infant
16P ☐ Renal disease
17Q ☐ Rh sensitization
18R ☐ Uterine bleeding
19S ☐ None
20T ☐ Other
Specify:

50. OBSTETRIC PROCEDURES

- 01A ☐ Amniocentesis
02B ☐ Electronic fetal monitoring
03C ☐ Induction of labor
04D ☐ Stimulation of labor
05E ☐ Toccolysis
06F ☐ Ultrasound
07G ☐ Postpartum sterilization
08H ☐ None
09I ☐ Other
Specify:

51. EVENTS OF LABOR AND/OR DELIVERY

- 01A ☐ Febrile (> 100 F or 38C)
02B ☐ Meconium, moderate/heavy
03C ☐ Prem. rupture of membranes (> 12 hrs)
04D ☐ Abruptio placenta
05E ☐ Placenta previa
06F ☐ Other excessive bleeding
07G ☐ Seizures during labor
08H ☐ Precipitous labor (< 3 hrs)
09I ☐ Prolonged labor (> 20 hrs)
10J ☐ Dysfunctional labor
11K ☐ Breech
12L ☐ Other malpresentation
13M ☐ Cephalopelvic disproportion
14N ☐ Cord prolapse
15O ☐ Anesthetic complications
16P ☐ Fetal distress
17Q ☐ None
18R ☐ Other
Specify:

52. METHOD OF DELIVERY

- 01A ☐ Vaginal
02B ☐ Vaginal after previous C-section
03C ☐ Primary C-section
04D ☐ Repeat C-section
05E ☐ Forceps
06F ☐ Vacuum

53. ABNORMAL CONDITIONS OF THE NEWBORN

- 01A ☐ Anemia (Hct. < 39/Hgb. < 13)
02B ☐ Birth injury
03C ☐ Hyaline membrane disease/RDS
04D ☐ Meconium aspiration syndrome
05E ☐ Assisted ventilation < 30 min
06F ☐ Assisted ventilation > 30 min
07G ☐ Seizures
08H ☐ None
09I ☐ Other
Specify:

54. CONGENITAL ANOMALIES OF CHILD

- 01A ☐ Anencephalus
02B ☐ Spina Bifida/Meningocele
03C ☐ Hydrocephalus
04D ☐ Microcephalus
05E ☐ Other cent. nerv. sys. anomalies
Specify:
06F ☐ Heart malformations
07G ☐ Other circ./respir. anomalies
Specify:
08H ☐ Rectal atresia/stenosis
09I ☐ Tracheo-esophageal fistula/Esoophageal atresia
10J ☐ Omphalocele/Gastroschisis
11K ☐ Other gastrointestinal anomalies
Specify:
12L ☐ Malformed genitalia
13M ☐ Renal agenesis
14N ☐ Other urogenital anomalies
Specify:
15O ☐ Cleft lip/palate
16P ☐ Polydactyly/Syndactyly/Adactyly
17Q ☐ Club foot
18R ☐ Diaphragmatic hernia
19S ☐ Other musculoskeletal/integumental anomalies
Specify:
20T ☐ Down syndrome
21U ☐ Other chromosomal anomalies
Specify:
22V ☐ None
23W ☐ Other
Specify:

DOH 5040 (Rev. 5/95)
Chap. 55, Wis. Stats.

STATE OF WISCONSIN
DEPARTMENT OF HEALTH AND FAMILY SERVICES
ORIGINAL CERTIFICATE OF DEATH

STATE FILING DATE
STATE DEATH NO.

LOCAL FILE NUMBER

Type or Print
Use
Permanent
Black Ink
No Whiteout
or Erasures

Reserved for
Corrections &
Amendments

1. DECEDENT'S NAME: First, Full Middle, Last

2. SEX: M, F

3. SOC. SEC. NUMBER OF DECEDENT

4a. PROHOUNCED DEAD DATE: Mo, Day, Yr

4b. HOUR

5. BODY FOUND: Yes, No (If Yes, date found)

6a. AGE (months, last birthday): Under 1 yr, 1 yr, 2 yrs, 3 yrs, 4 yrs, 5 yrs, 6 yrs, 7 yrs, 8 yrs, 9 yrs, 10 yrs, 11 yrs, 12 yrs, 13 yrs, 14 yrs, 15 yrs, 16 yrs, 17 yrs, 18 yrs, 19 yrs, 20 yrs, 21 yrs, 22 yrs, 23 yrs, 24 yrs, 25 yrs, 26 yrs, 27 yrs, 28 yrs, 29 yrs, 30 yrs, 31 yrs, 32 yrs, 33 yrs, 34 yrs, 35 yrs, 36 yrs, 37 yrs, 38 yrs, 39 yrs, 40 yrs, 41 yrs, 42 yrs, 43 yrs, 44 yrs, 45 yrs, 46 yrs, 47 yrs, 48 yrs, 49 yrs, 50 yrs, 51 yrs, 52 yrs, 53 yrs, 54 yrs, 55 yrs, 56 yrs, 57 yrs, 58 yrs, 59 yrs, 60 yrs, 61 yrs, 62 yrs, 63 yrs, 64 yrs, 65 yrs, 66 yrs, 67 yrs, 68 yrs, 69 yrs, 70 yrs, 71 yrs, 72 yrs, 73 yrs, 74 yrs, 75 yrs, 76 yrs, 77 yrs, 78 yrs, 79 yrs, 80 yrs, 81 yrs, 82 yrs, 83 yrs, 84 yrs, 85 yrs, 86 yrs, 87 yrs, 88 yrs, 89 yrs, 90 yrs, 91 yrs, 92 yrs, 93 yrs, 94 yrs, 95 yrs, 96 yrs, 97 yrs, 98 yrs, 99 yrs, 100 yrs

7. DATE OF BIRTH: Mo, Day, Yr

8a. COUNTY OF DEATH

8b. DEATH OCCURRED INSIDE: City, Village, Town, Township, Precinct, Range, Section, P.O. Box, or other address (If not in Hospital or Nursing Home give street address)

8c. CHECK ONE: Yes, No

8d. CHECK ONE: Yes, No

8e. CHECK ONE: Yes, No

8f. CHECK ONE: Yes, No

8g. CHECK ONE: Yes, No

8h. CHECK ONE: Yes, No

8i. CHECK ONE: Yes, No

8j. CHECK ONE: Yes, No

8k. CHECK ONE: Yes, No

8l. CHECK ONE: Yes, No

8m. CHECK ONE: Yes, No

8n. CHECK ONE: Yes, No

8o. CHECK ONE: Yes, No

8p. CHECK ONE: Yes, No

8q. CHECK ONE: Yes, No

8r. CHECK ONE: Yes, No

8s. CHECK ONE: Yes, No

8t. CHECK ONE: Yes, No

8u. CHECK ONE: Yes, No

8v. CHECK ONE: Yes, No

8w. CHECK ONE: Yes, No

8x. CHECK ONE: Yes, No

8y. CHECK ONE: Yes, No

8z. CHECK ONE: Yes, No

9. DEATH AT: Hospital, Other

10. OTHER PLACE: Yes, No

11a. HOSPITAL (AND CAMPUS) OR NURSING HOME (If not in Hospital or Nursing Home give street address)

11b. NURSING HOME LICENSE NO.

12. MARITAL STATUS: Married, Single, Divorced, Widowed

13a. RESIDENCE - STATE

13b. RESIDENCE - COUNTY

13c. RESIDENCE - INSIDE CITY, VILLAGE, TOWNSHIP

13d. CHECK ONE: Yes, No

13e. CHECK ONE: Yes, No

13f. CHECK ONE: Yes, No

13g. CHECK ONE: Yes, No

13h. CHECK ONE: Yes, No

13i. CHECK ONE: Yes, No

13j. CHECK ONE: Yes, No

13k. CHECK ONE: Yes, No

13l. CHECK ONE: Yes, No

13m. CHECK ONE: Yes, No

13n. CHECK ONE: Yes, No

13o. CHECK ONE: Yes, No

13p. CHECK ONE: Yes, No

13q. CHECK ONE: Yes, No

13r. CHECK ONE: Yes, No

13s. CHECK ONE: Yes, No

13t. CHECK ONE: Yes, No

13u. CHECK ONE: Yes, No

13v. CHECK ONE: Yes, No

13w. CHECK ONE: Yes, No

13x. CHECK ONE: Yes, No

13y. CHECK ONE: Yes, No

13z. CHECK ONE: Yes, No

14. STATE OF BIRTH (Country if not in U.S.):

15. FATHER'S NAME: First, Middle, Last

16. MOTHER'S NAME: First, Middle, Last

17. MOTHER'S NAME: First, Middle, Last

18. RACE (e.g. White, Black, Am. Indian, etc.):

19. HISPANIC ORIGIN: Specify Cuban, Mexican, etc.

20. USUAL OCCUPATION (Specify if not in U.S.):

21. INDUSTRY (Specify if not in U.S.):

22. EDUCATION (Highest grade completed):

23. DECEDENT EVER IN U.S. ARMED FORCES: Yes, No

24. SURVIVOR'S SIGNATURE (If not in U.S. give name and address of nearest relative):

25. INFORMANT'S NAME: First, Middle, Last

26. METHOD OF DISPOSITION: Burial, Cremation, Other

27. PLACE OF DISPOSITION (Name of cemetery, crematorium, or other place):

28. LOCATION (City/Village/Township, State):

29. DATE SIGNED BY FUNERAL SERVICE LICENSEE (Mo, Day, Yr):

30. DATE RECEIVED FROM MED. CERT. (Mo, Day, Yr):

31. FUNERAL SERVICE LICENSEE (Name and address of funeral home):

32. DATE SIGNED (Mo, Day, Yr):

33. NAME AND ADDRESS OF FACILITY (Street and number, City, State, Zip):

34. MEDICAL CERTIFIER: Yes, No

35. MEDICAL CERTIFIER SIGNATURE & TITLE (Print Name):

36. MEDICAL CERTIFIER'S NAME: First, Middle, Last

37. CERTIFIER'S MAILING ADDRESS (Street & Number, City, State, Zip):

38. DATE OF DEATH (Mo, Day, Yr):

39. MANNER OF DEATH: 1. Natural, 2. Accident, 3. Suicide, 4. Homicide, 5. Undeclared, 6. Pending

40. DATE OF INQUIRY (Mo, Day, Yr):

41. HOUR OF INQUIRY: M, A, P

42. PLACE OF INQUIRY (Home, Street, Farm, etc.):

43. INQUIRY AT WORK: Yes, No

44. LOCATION (State or ZIP, City or V.P., and State in which death occurred):

45. COUNTY: Yes, No

46. REGISTRAR SIGNATURE: >

47. DATE RECEIVED BY REGISTRAR (Mo, Day, Yr):

48. PART I: Enter the diseases, injuries or complications that caused the death. Do not enter the mode of dying such as cardiac or respiratory arrest, shock or heart failure. List only one cause of death on each line. Do not list old age or senility as sole cause.

IMMEDIATE CAUSE (a) (b) (c) (d)

SEQUENTIALLY ALL CONDITIONS IF ANY LEADING TO IMMEDIATE CAUSE ENTER UNDERLYING CAUSE LAST. Disease or injury that related events resulting in death.

49. IF INQUIRY DESCRIBE HOW INQUIRY OCCURRED

PART II: Other significant conditions contributing to death but not resulting in underlying cause enter in Part I.

Type or Print
in Permanent
Black Ink

DOH 5042 Rev. 9-96
Chapter 69, Wis. State

STATE OF WISCONSIN
DEPARTMENT OF HEALTH AND FAMILY SERVICES

STATE FILING NO.

REPORT OF FETAL DEATH
FOR STATISTICAL PURPOSES ONLY

NAME (First, Middle, Last) (Optional - May be left blank)		1. DATE OF DELIVERY (Month, Day, Year)		2. HOUR		3. SEX Male Female	
4a. Plurality (Specify)		4b. IF NOT SINGLE Specify: First, Second, etc.		5. HOSPITAL - NAME and CAMPUS (If not in hospital, give street and number or location)			
6. COUNTY OF DELIVERY		7. DELIVERY OCCURRED INSIDE CITY, VILLAGE, TOWNSHIP				8. (CHECK ONE) City Village Township	
9. ATTENDANT NAME		10. WISCONSIN LICENSE NUMBER		11. TITLE M.D. 2. D.O. 3. CHM 4. CM 5. Other			
12a. FILING PARTY (s. 69.18(1)(a)) NAME AND TITLE				12b. DATE REPORT COMPLETED (Month, Day, Year)			
13. MAILING ADDRESS OF FILING PARTY (Street & Number - City, State, ZIP)							
14. NAME AND COMPLETE ADDRESS OF FACILITY DISPOSING OF REMAINS							
15. MOTHER'S CURRENT NAME (First, Middle, Last)				16. MOTHER'S BIRTH SURNAME			
17. RESIDENCE - STATE		18. RESIDENCE - COUNTY		19. RESIDENCE INSIDE CITY, VILLAGE, TOWNSHIP		20. (CHECK ONE) City Village Township	
CONFIDENTIAL INFORMATION FOR MEDICAL AND HEALTH USE ONLY							
21. IS MOTHER MARRIED? (at any time between conception and delivery)		22a. MOTHER'S DATE OF BIRTH (Month, Day, Year)		22b. FATHER'S DATE OF BIRTH (Month, Day, Year)			
23. RACE White, Black, Amer. Ind., etc.		24. HISPANIC ORIGIN Puerto Rican, etc.		25. EMPLOYMENT ONE YEAR AGO Kind of Business or Industry		26. PREVIOUS DELIVERIES (Exclude this delivery.)	
27. LIVE BIRTHS (Specify date)		28. OTHER TERMINATIONS (Spontaneous or induced) (Specify date)		29. LIVE BIRTHS (Specify date)		30. OTHER TERMINATIONS (Spontaneous or induced) (Specify date)	
31. MONTH OF PREGNANCY PRENATAL CARE BEGAN (Month 1-12; Not stated)		32. TOTAL NUMBER OF PRENATAL VISITS		33. DATE LAST NORMAL MENSTRUATION BEGAN (Month, Day, Year)		34. CLINICAL ESTIMATE OF GESTATION (Weeks)	
35. CIGARETTE USE DURING PREGNANCY		36. ALCOHOL USE DURING PREGNANCY		37. WEIGHT GAIN/LOSS DURING PREGNANCY			
38. PART I FETAL DEATH CAUSED BY: A. Immediate Cause		39. FETUS DIED 1. Before Labor 2. During Labor 3. During Deliv. 4. Unknown		40. FETUS DIED 1. Before Labor 2. During Labor 3. During Deliv. 4. Unknown			
41. PART II OTHER SIGNIFICANT CONDITIONS of fetus or mother: conditions contributing to fetal death but not related to cause given in PART I (A)		42. BIRTHWEIGHT OF FETUS (Original unconverted lbs. or grams)		43. CROWN - HEEL LENGTH (Original unconverted inches or centimeters)			
CHECK ALL THAT APPLY							
44. MEDICAL HISTORY FOR THIS PREGNANCY		45. EVENTS OF LABOR AND/OR DELIVERY		46. CONGENITAL ANOMALIES OF FETUS			
47. OBSTETRIC PROCEDURES		48. ASSESSMENT (Check Each Done)		49. Down syndrome			

NOTE: THIS FORM IS REQUIRED FOR ANY DELIVERY OF 20 WEEKS OR MORE GESTATION OR IF FETUS WEIGHS 350 GRAMS OR MORE WHEN DEATH IS INDICATED BY THE FACT THAT THE FETUS SHOWS NO EVIDENCE OF LIFE. THIS FORM IS NOT TO BE USED FOR INDUCED ABORTIONS.

Sources, Definitions and Explanations of Terms

National Data. Unless otherwise noted, national data used in this report were cited from Martin JA, Smith BL, Mathews TJ, Ventura SJ. Births and deaths: Preliminary data for 1998. *National Vital Statistics Reports*, Vol. 47, No. 25. Hyattsville, Maryland: National Center for Health Statistics, 1999.

Race/Ethnicity Classifications. All live births, fetal deaths and infant deaths were classified by race or Hispanic origin of mother into one of six categories: non-Hispanic white, non-Hispanic black, non-Hispanic American Indian, Hispanic, non-Hispanic Laotian/Hmong, and non-Hispanic other (which are almost entirely Asian). The Laotian/Hmong category consists of mothers whose race was indicated as “Laotian” or “Hmong” and mothers born in Laos. Hispanics may be of any race; in Wisconsin, approximately 96 percent of Hispanic women giving birth report their race as white.

Prior to 1994, Wisconsin birth reports included a race/ethnicity category labeled “Indochinese.” Beginning in 1994, this category was redefined as “Laotian/Hmong” (who constituted approximately 95 percent of the Indochinese category). The remaining 5 percent of births in the Indochinese category were reallocated to the “Other” grouping; this includes Vietnamese, Cambodian, Thai, Chinese, Japanese, and East Indian.

Birth Certificate Checklists. Beginning in 1989, data on maternal health, pregnancy, delivery, and some dimensions of birth outcomes were collected in the following birth certificate checklists: “Medical history for this pregnancy,” “Obstetric procedures,” “Events of labor and/or delivery,” “Method of delivery,” “Abnormal conditions of the newborn,” and “Congenital anomalies of child” (see sample birth certificate, pages 97 and 98). These data were previously collected in a fill-in-the-blank format. Thus, data presented in annual reports for 1982-1988 on risk and treatment (“Type of delivery,” “Concurrent conditions of pregnancy,” “Complications of pregnancy,” “Complications of delivery,” and “Congenital anomalies”) are not comparable to the data presented in annual reports since 1989 (Maternal and Child Health Statistics and Wisconsin Births and Infant Deaths).

Also to be noted are the limitations on comparability that relate to changes in the editing of the medical checklist items since 1989. Each checklist (with the exception of “Method of delivery”) has an “other-specify” checkbox. Conditions reported in the “other-specify” category have been edited to exclude invalid reports from the database, and to ensure that those conditions that belong elsewhere in a checklist are properly reported. The editing process has varied each year, which affects comparability. This probably most affects data on “Medical history for this pregnancy” and “Congenital anomalies of child;” it also affects comparability of “Events of labor and/or delivery” and “Abnormal conditions of the newborn.” In 1990, this editing was done only for the “Congenital anomalies” and “Abnormal conditions” checklists. The decline in the reporting of congenital anomalies on birth certificates can be explained largely by new edits adopted in 1994 that eliminate conditions formerly counted and by reduction of the average length of hospital stay for mothers and infants after delivery.

Definitions of “Medical Risk Factors for this Pregnancy,” “Obstetric Procedures,” “Complications of Labor and/or Delivery,” “Abnormal Conditions of the Newborn” and “Congenital Anomalies of Child” were adapted from:

National Center for Health Statistics. Advance report of new data from the 1989 birth certificate. *Monthly Vital Statistics Report*; Vol. 40, No. 12, Supplement. Hyattsville, Maryland: Public Health Service, 1997.

Prematurity. Births were classified as premature (less than full term) if the gestational age was less than 37 weeks. To determine gestational age, the 1995 through 1998 reports use a prematurity index based on the computed estimate of gestational age, which is the difference between the date of last normal menses and the date of the infant’s birth. The clinical estimate of gestational age (reported by the physician directly on the birth certificate) is substituted when the date of last normal menses is unknown. The use of this index decreases the number of unknown records on gestational age. Previous years reported some or all three measures.

Mortality.

Infant Death. The birth-death cohort is not completed until one full year after the end of the birth cohort calendar year. This publication reports mortality data on infants who died during 1998, rather than the mortality experience of the 1998 birth cohort, to allow more timely reporting on infant mortality.

Fetal Death. A fetal death or stillbirth is “a fetus which, after complete expulsion or extraction from the woman, does not breathe or show other evidence of life such as beating of the heart, pulsation of the umbilical cord, or definite movement of the voluntary muscles. By Wisconsin statute, a stillbirth of at least 20 weeks’ gestation or 350 grams must be reported. (Note: A fetal death report is not used for induced abortions.) Some 1998 stillbirths (fetal deaths) to Wisconsin residents are not included in this publication because some were less than 20 weeks’ gestation, some occurred outside Wisconsin, and an unknown number that occurred within the state were not reported.

Perinatal Death. Includes all reported fetal deaths of 20 or more weeks gestation and all neonatal deaths.

Maternal Deaths. There were six deaths in 1998 for which a maternal cause of death was reported on the death certificate. Before 1989, and beginning again in 1994, the Center for Health Statistics (now the Bureau of Health Information) followed up deaths of women of childbearing age with inquiries about pregnancy-related causes of death. Maternal deaths from 1989-1993 may be underreported because this special study was not conducted.

Perinatal Regions. These tables present birth information for each of the seven Perinatal Regions in Wisconsin (see Map 2, page 96). These regions were informally designated in the early 1970s by the Wisconsin Association for Perinatal Care, in cooperation with organizations representing public and private providers of perinatal services. Perinatal regions represent geographical boundaries within which arrangements exist among providers of perinatal services to facilitate optimal treatment for pregnant women and newborns. Within each region, selected hospitals with the capability to provide

neonatal and maternal intensive care have been self-designated as perinatal centers. High-risk pregnancies and deliveries are often referred to or transported to these perinatal centers, as are high-risk babies born outside perinatal centers. Health care providers within the regions also collaborate in other ways to address perinatal health care issues as they arise.

Limitations of the Data. Vital records information has some limitations related to completeness, accuracy, and timeliness of registration, quality control procedures and classification problems. The reporting of live births and infant deaths is considered to be essentially complete for births occurring in Wisconsin. A cooperative exchange program between all states has been in operation for several decades to allocate birth and death certificates to the state of residence. Although this exchange program is not totally complete, the incompleteness is not of sufficient magnitude to seriously affect natality and infant mortality results.

Edit checks are incorporated in the software used for electronic transmission of birth certificate data, and the Vital Records Registration and Statistics Unit in the Bureau of Health Information reviews birth certificates and death certificates for logical inconsistencies. Some errors remain after this review, but they are thought to have little, if any, effect on statistical results.

There may be some underreporting of medical risk factors and types of obstetrical procedures performed. There may also be underreporting of congenital anomalies which are identifiable at birth; in addition, some congenital anomalies cannot be detected at the time the birth certificate is filed.

Medical Risk Factors for This Pregnancy: Definitions

<i>Anemia</i>	Maternal hemoglobin level of less than 10.0 g/dL during pregnancy, or a hematocrit of less than 30 percent during pregnancy.
<i>Cardiac Disease</i>	Disease of the heart.
<i>Acute or Chronic Lung Disease</i>	Disease of the lungs during pregnancy.
<i>Diabetes</i>	Metabolic disorder characterized by excessive discharge of urine and persistent thirst; includes juvenile onset, adult onset, and gestational diabetes during pregnancy.
<i>Genital Herpes</i>	Infection of the skin of the genital area by herpes simplex virus.
<i>Hydramnios/Oligohydramnios</i>	Any noticeable excess (hydramnios) or lack (oligohydramnios) of amniotic fluid.
<i>Hypertension, Chronic</i>	Blood pressure persistently greater than 140/90, diagnosed prior to onset of pregnancy or before the 20th week of gestation.
<i>Hypertension, Pregnancy-Associated</i>	An increase in blood pressure of at least 30 mm hg systolic or 15 mm hg diastolic on two measurements taken six hours apart after the 20th week of gestation.

<i>Eclampsia</i>	The occurrence of convulsions and/or coma unrelated to other cerebral conditions in women with signs and symptoms of preeclampsia.
<i>Incompetent Cervix</i>	A condition characterized by painless dilation of the cervix in the second trimester or early in the third trimester of pregnancy, with premature expulsion of membranes through the cervix and ballooning of the membranes into the vagina, followed by rupture of the membranes and subsequent expulsion of the fetus.
<i>Previous Infant 4,000+ Grams</i>	Previous birth of a live-born child with a birthweight of over 4,000 grams (8 lbs 14 oz).
<i>Previous Preterm or SGA Infant</i>	Previous birth of an infant prior to term (before 37 completed weeks of gestation), or of an infant weighing less than the 10th percentile for gestational age, using a standard weight-for-age chart. (SGA means “small for gestational age”).
<i>Renal Disease</i>	Kidney disease.
<i>Rh Sensitization</i>	The process or state of becoming sensitized to the Rh blood factor, as when an Rh-negative woman is pregnant with an Rh-positive fetus.
<i>Uterine Bleeding</i>	Any clinically significant bleeding during the pregnancy, taking into consideration the stage of pregnancy; any second- or third-trimester bleeding of the uterus prior to the onset of labor.
<u>Obstetric Procedures: Definitions</u>	
<i>Amniocentesis</i>	Surgical transabdominal perforation of the uterus to obtain amniotic fluid to be used in the detection of genetic disorders, fetal abnormalities, and fetal lung maturity.
<i>Electronic Fetal Monitoring</i>	Monitoring with external devices applied to the maternal abdomen or with internal devices with an electrode attached to the fetal scalp and a catheter through the cervix into the uterus, to detect and record fetal heart tones and uterine contractions.
<i>Induction of Labor</i>	The initiation of uterine contractions before the spontaneous onset of labor by medical and/or surgical means for the purpose of delivery.
<i>Stimulation of Labor</i>	Augmentation of previously established labor by use of oxytocin.
<i>Tocolysis</i>	Use of medications to inhibit preterm uterine contractions to extend the length of pregnancy and, therefore, avoid a preterm birth.
<i>Ultrasound</i>	Visualization of the fetus and the placenta by means of sound waves.

Congenital Anomalies: Definitions

<i>Anencephalus</i>	Absence of the cerebral hemispheres.
<i>Spina Bifida/ Meningocele</i>	Developmental anomaly characterized by defective closure of the bony encasement of the spinal cord, through which the cord and meninges may or may not protrude.
<i>Hydrocephalus</i>	Excessive accumulation of cerebrospinal fluid within the ventricles of the brain with consequent enlargement of the cranium.
<i>Microcephalus</i>	A significantly small head.
<i>Other Central Nervous System</i>	Other specified anomalies of the brain, spinal cord, and nervous system.
<i>Heart Malformations</i>	Congenital anomalies of the heart.
<i>Other Circulatory/ Respiratory</i>	Other specified anomalies of the circulatory and respiratory systems.
<i>Rectal Atresia/ Stenosis</i>	Congenital absence, closure, or narrowing of the rectum.
<i>Tracheo-Esophageal Fistula/Esophageal Atresia</i>	An abnormal passage between the trachea and the esophagus; esophageal atresia is the congenital absence or closure of the esophagus.
<i>Omphalocele/ Gastroschisis</i>	An omphalocele is a protrusion of variable amounts of abdominal viscera from a midline defect at the base of the umbilicus. In gastroschisis, the abdominal viscera protrude through an abdominal wall defect, usually on the right side of the umbilical cord insertion.
<i>Other Gastro-Intestinal</i>	Other specified congenital anomalies of the gastrointestinal system
<i>Malformed Genitalia</i>	Congenital anomalies of the reproductive organs.
<i>Renal Agenesis</i>	One or both kidneys are completely absent.
<i>Other Urogenital Anomalies</i>	Other specified congenital anomalies of the organs concerned in the production and excretion of urine, together with organs of reproduction.
<i>Cleft Lip/Palate</i>	Cleft lip is a fissure or elongated opening of the lip; cleft palate is a fissure in the roof of the mouth. These are failures of embryonic development.
<i>Polydactyly/Syndactyly, Adactyly</i>	Polydactyly is the presence of more than five digits on either hands and/or feet; syndactyly is having fused or webbed fingers and/or toes; adactyly is the absence of fingers and/or toes.

<i>Clubfoot</i>	Deformity of the foot, which is twisted out of shape or position.
<i>Diaphragmatic Hernia</i>	Herniation of the abdominal contents through the diaphragm into the thoracic cavity, usually resulting in respiratory distress.
<i>Other Musculo-Skeletal/ Integumental</i>	Other specified congenital anomalies of the muscles, skeleton, or skin.
<i>Down Syndrome</i>	The most common chromosomal defect, with most cases resulting from an extra chromosome (trisomy 21).
<i>Other Chromosomal Anomalies</i>	All other chromosomal aberrations.